

Bibliography

Note: Numbers in square brackets denote the chapter in which an entry is cited.

- Ackoff, R. L. 1989. From Data to Wisdom: Presidential Address to ISGSR, June 1988. *J. Appl. Syst. Anal.* **16**:3–9. [12]
- Adami, H. O., and O. Nyrén. 2016. Enigmas, Priorities and Opportunities in Cancer Epidemiology. *Eur. J. Epidemiol.* **31**:1161–1171. [11]
- ADB. 2019. Asian Development Outlook 2019. Fostering Growth and Inclusion in Asian’s Cities. Manila, Philippines: Asian Development Bank. [8]
- Aggarwal, C. C., and T. Abdelzاهر. 2013. Social Sensing. In: *Managing and Mining Sensor Data*, ed. C. C. Aggarwal, pp. 237–297. Boston: Kluwer. [7]
- Aitken, M., J. de St Jorre, C. Pagliari, R. Jepson, and S. Cunningham-Burley. 2016. Public Responses to the Sharing and Linkage of Health Data for Research Purposes: A Systematic Review and Thematic Synthesis of Qualitative Studies. *BMC Med Ethics* **17**:73. [1]
- Al Nuaimi, E., H. Al Neyadi, N. Mohamed, and J. Al-Jaroodi. 2015. Applications of Big Data to Smart Cities. *J. Internet Serv. Applicat.* **6**:25. [6]
- Aleixo, R., F. Kon, R. Rocha, M. Santos Camargo, and R. Y. De Camargo. 2022. Predicting Dengue Outbreaks with Explainable Machine Learning. In: *22nd Intl. Symposium on Cluster Computing and the Grid (CCGRID)*, pp. 940–947. Taormina, Italy: IEEE. [3]
- Alemy, A., S. Hudzik, and C. N. Matthews. 2017. Creating a User-Friendly Interactive Interpretive Resource with ESRI’s ArcGIS Story Map Program. *Hist. Archaeol.* **51**:288–297. [3]
- Althoff, T., R. W. White, and E. Horvitz. 2016. Influence of Pokémon Go on Physical Activity: Study and Implications. *J. Med. Internet Res.* **18**:e315. [4]
- Altman, J. 1974. Observational Study of Behavior: Sampling Methods. *Behaviour* **49**:227–266. [2, 9]
- Amato, P. R. 1983. Helping Behavior in Urban and Rural Environments: Field Studies Based on a Taxonomic Organization of Helping Episodes. *J. Pers. Soc. Psychol.* **45**:571–586. [8]
- Ambuhl, L., A. Loder, L. Leclercq, and M. Menendez. 2021. Disentangling the City Traffic Rhythms: A Longitudinal Analysis of MFD Patterns over a Year. *Transport. Res. C Emerg. Technol.* **126**:103065. [8]
- Amrhein, V., D. Trafimow, and S. Greenland. 2019. Inferential Statistics as Descriptive Statistics: There Is No Replication Crisis If We Don’t Expect Replication. *Am. Stat.* **73**:262–270. [12]
- Anand, A., and J. Pathak. 2022. The Role of reddit in the Gamestop Short Squeeze. *Econ. Lett.* **211**:110249. [10]
- Anderson, D. J., and P. Perona. 2014. Toward a Science of Computational Ethology. *Neuron* **84**:18–31. [2, 9]
- Andor, L. 2019. Fifteen Years of Convergence: East-West Imbalance and What the EU Should Do About It. *Intereconomics* **54**:18–23. [4]
- André Hutson, M., G. A. Kaplan, N. Ranjit, and M. S. Mujahid. 2012. Metropolitan Fragmentation and Health Disparities: Is There a Link? *Milbank Q.* **90**:187–207. [3]

- Antonie, L., K. Inwood, D. J. Lizotte, and J. Andrew Ross. 2014. Tracking People over Time in 19th Century Canada for Longitudinal Analysis. *Mach. Learn.* **95**:129–146. [12]
- Anwar, M., D. Khoury, A. P. Aldridge, S. J. Parker, and K. P. Conway. 2020. Using Twitter to Surveil the Opioid Epidemic in North Carolina: An Exploratory Study. *JMIR Public Health Surveill.* **7**:e17574. [10]
- Apicella, C. L., F. W. Marlowe, J. H. Fowler, and N. A. Christakis. 2012. Social Networks and Cooperation in Hunter-Gatherers. *Nature* **481**:497–501. [4]
- Appleyard, D., M. S. Gerson, and M. Lintell. 1981. *Livable Streets*. Oakland: Univ. California Press. [8]
- Arora, A., and A. Arora. 2022. Synthetic Patient Data in Health Care: A Widening Legal Loophole. *Lancet* **399**:1601–1602. [5]
- Auchincloss, A. H., A. V. Diez Roux, D. G. Brown, E. S. O’Meara, and T. E. Raghunathan. 2006. Association of Insulin Resistance with Distance to Wealthy Areas: The Multi-Ethnic Study of Atherosclerosis. *Am. J. Epidemiol.* **165**:389–397. [4]
- Aureli, F., C. M. Schaffner, C. Boesch, et al. 2008. Fission-Fusion Dynamics: New Research Frameworks. *Curr. Anthropol.* **49**:627–654. [4]
- Austin, J. L. 1975. *How to Do Things with Words*. Oxford: Oxford Univ. Press. [9]
- Austin, P. C., and E. A. Stuart. 2015. Moving Towards Best Practice When Using Inverse Probability of Treatment Weighting (IPTW) Using the Propensity Score to Estimate Causal Treatment Effects in Observational Studies. *Stat. Med.* **34**:3661–3679. [12]
- Auxier, B., and M. Anderson. 2021. *Social Media Use in 2021*. Washington, D.C.: Pew Research Center. [4]
- Baeza-Yates, R. 2020. Biases on Social Media Data: (Keynote Extended Abstract). In: WWW ‘20: The Web Conference 2020, pp. 782–783. New York: ACM. [4]
- Bai, D., N. Marrus, B. H. K. Yip, et al. 2020. Inherited Risk for Autism through Maternal and Paternal Lineage. *Biol. Psychiatry* **88**:480–487. [11]
- Bai, D., B. H. K. Yip, G. C. Windham, et al. 2019. Association of Genetic and Environmental Factors with Autism in a 5-Country Cohort. *JAMA Psychiatry* **76**:1035–1043. [11]
- Bail, C. A., L. P. Argyle, T. W. Brown, et al. 2018. Exposure to Opposing Views on Social Media Can Increase Political Polarization. *PNAS* **115**:9216–9221. [4]
- Bakeman, R. 2023. Kappaacc: A Program for Assessing the Adequacy of Kappa. *Behav. Res. Meth.* **55**:633–638. [2]
- Bakeman, R., and V. Quera. 2011. *Sequential Analysis and Observational Methods for the Behavioral Sciences*. Cambridge: Cambridge Univ. Press. [2]
- Baker, S. J., M. Jackson, H. Jongasma, and C. W. N. Saville. 2021. The Ethnic Density Effect in Psychosis: A Systematic Review and Multilevel Meta-Analysis. *Br. J. Psychiatry* **219**:632–643. [4]
- Bakker, M. A., D. A. Piracha, P. J. Lu, et al. 2019. Measuring Fine-Grained Multidimensional Integration Using Mobile Phone Metadata: The Case of Syrian Refugees in Turkey. In: *Guide to Mobile Data Analytics in Refugee Scenarios*, pp. 123–140, A. Salah, Pentland, A., Lepri, B., Letouzé, E., series ed. Cham: Springer. [4, 8]
- Baldi, I., A. Ponti, R. Zanetti, et al. 2010. The Impact of Record-Linkage Bias in the Cox Model. *J. Eval. Clin. Pract.* **16**:92–96. [12]
- Balsa-Barreiro, J., Y. Li, A. J. Morales, and A. Pentland. 2019a. Globalization and the Shifting Centers of Gravity of World’s Human Dynamics: Implications for Sustainability. *J. Clean. Prod.* **239**:117923. [8]

- Balsa-Barreiro, J., and M. Menendez. 2021. *Cómo Son y Cómo Se Mueven Las Redes Urbanas*. Los Angeles Times. <https://www.latimes.com/espanol/opinion/articulo/2021-10-27/opinion-como-son-y-como-se-mueven-las-redes-urbanas> (accessed Jan. 23, 2024). [8]
- . 2022. *Fisionomía y Flujos de Tráfico ¿Como Entender la Movilidad en Las Ciudades?* Foreign Affairs Latinoamérica. <https://revistafal.com/fisionomia-urbana-y-flujos-de-trafico/> (accessed Jan. 23, 2024). [8]
- Balsa-Barreiro, J., M. Menendez, and A. J. Morales. 2022. Scale, Context, and Heterogeneity: The Complexity of the Social Space. *Sci. Rep.* **12**:9037. [4, 8]
- Balsa-Barreiro, J., A. J. Morales, and R. C. Lois-González. 2021. Mapping Population Dynamics at Local Scales Using Spatial Networks. *Complexity* **2021**:8632086. [8]
- Balsa-Barreiro, J., A. M. Morales, and E. Castelló. 2018. *Datos, Inteligencia Artificial y Complejidad. Una Visión de la Sociedad del Futuro*. Instituto de Ingeniería de España. Madrid: Instituto de Ingeniería de España. [8]
- Balsa-Barreiro, J., P. M. Valero-Mora, J. L. Berné-Valero, and F. Varela-García. 2019b. GIS Mapping of Driving Behavior Based on Naturalistic Driving Data. *ISPRS Intl. Journal of Geo-Information* **8**:226. [4]
- Balsa-Barreiro, J., P. M. Valero-Mora, M. Menéndez, and R. Mehmood. 2020a. Extraction of Naturalistic Driving Patterns with Geographic Information Systems. *Mob. Netw. Appl.* **28**: 619–635. [4]
- Balsa-Barreiro, J., A. Vié, A. J. Morales, and M. Cebrian. 2020b. Deglobalization in a Hyper-Connected World. *Palgrave Commun.* **6**:28. [4, 8]
- Bard, K. A., H. Keller, K. M. Ross, et al. 2021. Joint Attention in Human and Chimpanzee Infants in Varied Socio-Ecological Contexts. *Monogr. Soc. Res. Child Devel.* **86**:7–217. [4, 9]
- Bartelme, N. 2022. Geographic Information Systems. In: *Springer Handbook of Geographic Information*, ed. W. Kresse and D. Danko, pp. 121–149, Springer Handbooks. Cham: Springer. [6]
- Batbaatar, E., and K. H. Ryu. 2019. Ontology-Based Healthcare Named Entity Recognition from Twitter Messages Using a Recurrent Neural Network Approach. *Int. J. Environ. Res. Public Health* **16**:3628. [4]
- Batista, D. M., A. Goldman, R. Hirata, et al. 2016. Interscity: Addressing Future Internet Research Challenges for Smart Cities. In: 7th Intl. Conf. on the Network of the Future, p. 10.1109/NOF.2016.7810114. IloBuzios, Brazil: IEEE. [3]
- Batty, M., E. Besussi, and N. Chin. 2003. *Traffic, Urban Growth and Suburban Sprawl* London: Bartlett Centre for Advanced Spatial Analysis. [8]
- Batty, M., and P. Longley. 1994. *Fractal Cities: A Geometry of Form and Function*. Cambridge, MA: Academic Press. [8]
- Baum-Snow, N. 2007. Did Highways Cause Suburbanization? *Q. J. Econ.* **122**:775–805. [8]
- Baumeister, R. F., K. D. Vohs, and D. C. Funder. 2007. Psychology as the Science of Self-Reports and Finger Movements: Whatever Happened to Actual Behavior? *Perspect. Psychol. Sci.* **2**:396–403. [9]
- Beauté, J., S. Sandin, S. A. Uldum, et al. 2016. Short-Term Effects of Atmospheric Pressure, Temperature, and Rainfall on Notification Rate of Community-Acquired Legionnaires' Disease in Four European Countries. *Epidemiol. Infect.* **144**:3483–3493. [11]
- Becker, S. J., B. R. Garner, and B. J. Hartzler. 2021. Is Necessity Also the Mother of Implementation? COVID-19 and the Implementation of Evidence-Based Treatments for Opioid Use Disorders. *J. Subst. Abuse Treat.* **122**:108210. [10]

- Beelen, R., G. Hoek, D. Vienneau, et al. 2013. Development of NO₂ and NO_x Land Use Regression Models for Estimating Air Pollution Exposure in 36 Study Areas in Europe: The Escape Project. *Atmos. Environ.* **72**:10–23. [7]
- Been, K., E. Daiches, and C. Yap. 2006. Dynamic Map Labeling. *IEEE Trans. Vis. Comput. Graph.* **12**:773–780. [6]
- Beilschmidt, C., J. Dröner, M. Mattig, et al. 2017. VAT: A Scientific Toolbox for Interactive Geodata Exploration. *Datenbank-Spektrum* **17**:233–243. [6]
- Belkaroui, R., R. Faiz, and P. Kuntz. 2015. User-Tweet Interaction Model and Social Users Interactions for Tweet Contextualization. In: *Computational Collective Intelligence*, ed. M. Núñez et al., pp. 144–157. Cham: Springer. [2]
- Belkin, M., D. Hsu, S. Ma, and S. Mandal. 2019. Reconciling Modern Machine-Learning Practice and the Classical Bias–Variance Trade-Off. *PNAS* **116**:15849–15854. [12]
- Bendavid, E., B. Mulaney, N. Sood, et al. 2021. COVID-19 Antibody Seroprevalence in Santa Clara County, California. *Int. J. Epidemiol.* **50**:410–419. [12]
- Bennett, D. A., D. Landry, J. Little, and C. Minelli. 2017. Systematic Review of Statistical Approaches to Quantify, or Correct for, Measurement Error in a Continuous Exposure in Nutritional Epidemiology. *BMC Med. Res. Methodol.* **17**:146. [5]
- Bergeron, J., D. Doiron, Y. Marcon, V. Ferretti, and I. Fortier. 2018. Fostering Population-Based Cohort Data Discovery: The Maelstrom Research Cataloguing Toolkit. *PLOS ONE* **13**:e0200926. [11]
- Berkman, L. F., I. Kawachi, and M. M. Glymour, eds. 2014. *Social Epidemiology*. New York: Oxford Univ. Press. [4]
- Bernasco, W., E. Hoeben, D. Koelma, et al. 2022. Promise into Practice: Application of Computer Vision in Empirical Research on Social Distancing. *Sociol. Methods Res.* **May 9**:1239–1287. [9]
- Bettencourt, L. M. A. 2013. The Origins of Scaling in Cities. *Science* **340**:1438–1441. [8]
- Bezuidenhout, L. 2013. Data Sharing and Dual-Use Issues. *Sci. Eng. Ethics* **19**:83–92. [5]
- Bhattacharya, K., A. Ghosh, D. Monsivais, R. I. M. Dunbar, and K. Kaski. 2016. Sex Differences in Social Focus across the Life Cycle in Humans. *R. Soc. Open Sci.* **3**:160097. [4]
- Bhopal, R. S. 1993. Geographical Variation of Legionnaires' Disease: A Critique and Guide to Future Research. *Int. J. Epidemiol.* **22**:1127–1136. [11]
- Biljecki, F., and Y. S. Chow. 2022. Global Building Morphology Indicators. *Comput. Environ. Urban Syst.* **95**:101809. [8]
- Bjorkenstam, E., S. Cheng, B. Burstrom, et al. 2017. Association between Income Trajectories in Childhood and Psychiatric Disorder: A Swedish Population-Based Study. *J. Epidemiol. Commun. Health* **71**:648–654. [1]
- Black, C., Y. Tesfaigzi, J. A. Bassein, and L. A. Miller. 2017. Wildfire Smoke Exposure and Human Health: Significant Gaps in Research for a Growing Public Health Issue. *Environ. Toxicol. Pharmacol.* **55**:186–195. [12]
- Blank, G., and C. Lutz. 2017. Representativeness of Social Media in Great Britain: Investigating Facebook, LinkedIn, Twitter, Pinterest, Google+, and Instagram. *Am. Behav. Sci.* **61**:741–756. [4]
- Blei, D. M., and P. Smyth. 2017. Science and Data Science. *PNAS* **114**:8689–8692. [12]
- Bleiholder, J., and F. Naumann. 2009. Data Fusion. *ACM Comput. Surv.* **41**:Article 1. [5]
- Bloch, C., L. S. Liebst, P. Poder, J. M. Christiansen, and M. B. Heinskou. 2018. Caring Collectives and Other Forms of Bystander Helping Behavior in Violent Situations. *Curr. Sociol.* **66**:1049–1069. [9]

- Blok, A., and M. A. Pedersen. 2014. Complementary Social Science? Quali-Quantitative Experiments in a Big Data World. *Big Data Soc.* **1**:10.1177/2053951714543908. [9]
- Boeing, G. 2019. Urban Spatial Order: Street Network Orientation, Configuration, and Entropy. *Appl. Netw. Sci.* **4**:67. [8]
- Boivin, A., T. Richards, L. Forsythe, et al. 2018. Evaluating Patient and Public Involvement in Research. *Br. Med. J.* **363**:k5147. [3]
- Bollier, D. 2010. *The Promise and Peril of Big Data*. Washington, D.C.: Aspen Institute. [12]
- Borck, R., and T. Tabuchi. 2019. Pollution and City Size: Can Cities Be Too Small? *Journal of Economic Geography* **19**:995–1020. [8]
- Bordogna, G., S. Capelli, and G. Psaila. 2017. A Big Geo Data Query Framework to Correlate Open Data with Social Network Geotagged Posts. In: *Societal Geo-Innovation*, ed. A. Bregt et al., pp. 185–203, Lecture Notes in Geoinformation and Cartography. Cham: Springer. [6]
- Borgman, C. L., P. T. Darch, A. E. Sands, et al. 2015. Knowledge Infrastructures in Science: Data, Diversity, and Digital Libraries. *Int. J. Digit. Libr.* **16**:207–227. [12]
- Bossetta, M. 2018. The Digital Architectures of Social Media: Comparing Political Campaigning on Facebook, Twitter, Instagram, and Snapchat in the 2016 U.S. Election. *JMCQ* **95**:471–496. [10]
- Botts, M., G. Percivall, C. Reed, and J. Davidson. 2013. OGC Sensor Web Enablement: Overview and High Level Architecture. Open Geospatial Consortium. <https://docs.ogc.org/wp/07-165r1/> (accessed Jan. 19, 2024). [6]
- Bourdic, L., S. Salat, and C. Nowacki. 2012. Assessing Cities: A New System of Cross-Scale Spatial Indicators. *Building Research & Information* **40**:592–605. [8]
- Bowker, G. C., and S. L. Star. 1999. *Sorting Things Out: Classification and Its Consequences*. Cambridge, MA: MIT Press. [12]
- Bowman, D. M. 2013. The Hare and the Tortoise: An Australian Perspective on Regulating New Technologies and Their Products and Processes. In: *Innovative Governance Models for Emerging Technologies*, pp. 155–175. Cheltenham: Edward Elgar Publ. [5]
- Boyd, A., J. Golding, J. Macleod, et al. 2013. Cohort Profile: The “Children of the 90s”—the Index Offspring of the Avon Longitudinal Study of Parents and Children. *Int. J. Epidemiol.* **42**:111–127. [1]
- Boyd, D., and K. Crawford. 2012. Critical Questions for Big Data. *Inform. Commun. Soc.* **15**:662–679. [12]
- Boyle, E. A., Y. I. Li, and J. K. Pritchard. 2017. An Expanded View of Complex Traits: From Polygenic to Omnigenic. *Cell* **169**:1177–1186. [2]
- Bragg, H., H. R. Jayanetti, M. L. Nelson, and M. C. Weigle. 2023. Less Than 4% of Archived Instagram Account Pages for the Disinformation Dozen Are Replayable. In: *Proc. of the ACM/IEEE Joint Conference on Digital Libraries (JCDL)*, pp. 102–106. New York: ACM. [4]
- Brassel, K. E., and R. Weibel. 1988. A Review and Conceptual Framework of Automated Map Generalization. *Int. J. Geographic. Inf. Syst.* **2**:229–244. [6]
- Braubach, M., A. Egorov, P. Mudu, et al. 2017. Effects of Urban Green Space on Environmental Health, Equity and Resilience. In: *Theory and Practice of Urban Sustainability Transitions*, ed. N. Kabisch et al., pp. 187–205. Cham: Springer. [8]
- Brazhnik, O., and J. F. Jones. 2007. Anatomy of Data Integration. *J. Biomed. Inform.* **40**:252–269. [5]

- Brinkhoff, T. 2020. Determining Point Locations of Populated Places by Using Area Datasets. In: *Geospatial Technologies for Local and Regional Development*, ed. P. Kyriakidis et al., paper 74, Springer Ebooks Earth and Environmental Science. Cham: Springer. [6]
- . 2022. *Geodatenbanksysteme in Theorie und Praxis: Einführung unter besonderer Berücksichtigung von PostGIS und Oracle*. Berlin: Wichmann. [6]
- Brinkhoff, T., H.-P. Kriegel, R. Schneider, and B. Seeger. 1994. Multi-Step Processing of Spatial Joins. *SIGMOD Rec.* **23**:197–208. [5]
- Brodeur, J., S. Coetzee, D. Danko, S. Garcia, and J. Hjelmager. 2019. Geographic Information Metadata: An Outlook from the International Standardization Perspective. *ISPRS Int. J. Geo-Inf.* **8**:280. [6]
- Brondino, N., L. Fusar-Poli, and P. Politi. 2017. Something to Talk about: Gossip Increases Oxytocin Levels in a near Real-Life Situation. *Psychoneuroendocrinol.* **77**:218–224. [4]
- Broniatowski, D. A., M. J. Paul, and M. Dredze. 2013. National and Local Influenza Surveillance through Twitter: An Analysis of the 2012–2013 Influenza Epidemic. *PLOS ONE* **8**:e83672. [10]
- Bronstein, J. M., C. T. Lomatsch, D. Fletcher, et al. 2009. Issues and Biases in Matching Medicaid Pregnancy Episodes to Vital Records Data: The Arkansas Experience. *Matern. Child Health J.* **13**:250–259. [12]
- Brook, J. R., E. M. Setton, E. Seed, et al. 2018. The Canadian Urban Environmental Health Research Consortium: A Protocol for Building a National Environmental Exposure Data Platform for Integrated Analyses of Urban Form and Health. *BMC Public Health* **18**:114. [1]
- Brooke, H. L., M. Talbäck, J. Hörnblad, et al. 2017. The Swedish Cause of Death Register. *Eur. J. Epidemiol.* **32**:765–773. [11]
- Brooks, J. M., and R. L. Ohsfeldt. 2013. Squeezing the Balloon: Propensity Scores and Unmeasured Covariate Balance. *Health Serv. Res.* **48**:1487–1507. [12]
- Brousse, O., C. Simpson, N. Walker, et al. 2022. Evidence of Horizontal Urban Heat Advection in London Using Six Years of Data from a Citizen Weather Station Network. *Environ. Res. Lett.* **17**:044041. [7]
- Brown, D. 1991. *Human Universals*. Philadelphia: Temple Univ. Press. [9]
- Brulle, R. J., and D. N. Pellow. 2006. Environmental Justice: Human Health and Environmental Inequalities. *Annu. Rev. Public Health* **27**:103–124. [12]
- Brum-Bastos, V. S., J. A. Long, and U. Demšar. 2018. Weather Effects on Human Mobility: A Study Using Multi-Channel Sequence Analysis. *Comput. Environ. Urban Syst.* **71**:131–152. [7]
- Brunekreef, B., and S. T. Holgate. 2002. Air Pollution and Health. *Lancet* **360**:1233–1242. [7]
- Brunelle, J. F., M. Kelly, M. C. Weigle, and M. L. Nelson. 2016. The Impact of Javascript on Archivability. *Int. J. Digit. Libr.* **17**:95–117. [4]
- Büchel, K., and M. von Ehrlich. 2020. Cities and the Structure of Social Interactions: Evidence from Mobile Phone Data. *J. Urban Econ.* **119**:103276. [8]
- Buckley, A., P. Hardy, and K. Field. 2022. Cartography. In: *Springer Handbook of Geographic Information*, ed. W. Kresse and D. Danko, pp. 315–352. Springer Handbooks. Cham: Springer. [6]
- Bulcock, A., L. Hassan, S. Giles, et al. 2021. Public Perspectives of Using Social Media Data to Improve Adverse Drug Reaction Reporting: A Mixed-Methods Study. *Drug Saf.* **44**:553–564. [4]

- Bulmer, M. 1984. *The Chicago School of Sociology: Institutionalization, Diversity, and the Rise of Sociological Research*. Chicago: Univ. Chicago Press. [8]
- Burger, M. J., P. S. Morrison, M. Hendriks, and M. M. Hoogerbrugge. 2020. Urban-Rural Happiness Differentials across the World. <https://worldhappiness.report/ed/2020/urban-rural-happiness-differentials-across-the-world/> (accessed Jan. 23, 2024). [8]
- Burgess, R. 2000. The Compact City Debate: A Global Perspective. In: *Compact Cities. Sustainable Urban Forms for Developing Countries*, ed. R. Burgess and M. Jenks, pp. 21–36. London: Routledge. [8]
- Burke, G., and J. Dearen. 2022. Tech Tool Offers Police “Mass Surveillance on a Budget”. Associated Press. <https://apnews.com/article/technology-police-government-surveillance-d395409ef5a8c6c3f6cdab5b1d0e27ef> (accessed Nov. 1, 2022). [3]
- Burlew, K., C. McCuistian, and J. Szapocznik. 2021. Racial/Ethnic Equity in Substance Use Treatment Research: The Way Forward. *Addict. Sci. Clin. Pract.* **16**:1–6. [10]
- Callard, F., and E. Perego. 2021. How and Why Patients Made Long Covid. *Soc. Sci. Med.* **268**:113426. [10]
- Caminha, C., V. Furtado, T. H. C. Pequeno, et al. 2017. Human Mobility in Large Cities as a Proxy for Crime. *PLOS ONE* **12**:e0171609. [8]
- Cândido, R. L., M. Steinmetz-Wood, P. Morency, and Y. Kestens. 2018. Reassessing Urban Health Interventions: Back to the Future with Google Street View Time Machine. *Am. J. Prev. Med.* **55**:662–669. [7]
- Candiloro, T. 2023. The Best and Worst Cities for Commuters in 2022. <https://listwithlever.com/research/best-and-worst-cities-for-commuters-2022/> (accessed Jan. 23, 2024). [8]
- Cao, L. 2017. Data Science: A Comprehensive Overview. *ACM Comput. Surv.* **50**:1–42. [12]
- Carballada, A., and J. Balsa-Barreiro. 2021. Geospatial Analysis and Mapping Strategies for Fine-Grained and Detailed COVID-19 Data with GIS. *ISPRS Int. J. Geo-Inf.* **10**:602. [8]
- Carinci, F. 2020. Covid-19: Preparedness, Decentralisation, and the Hunt for Patient Zero. *Br. Med. J.* **368**:bmj.m799. [10]
- Carollo, A., P. Montefalcone, M. H. Bornstein, and G. Esposito. 2023. A Scientometric Review of Infant Cry and Caregiver Responsiveness: Literature Trends and Research Gaps over 60 Years of Developmental Study. *Children (Basel)* **10**:1042. [1]
- Carroll, S. R., I. Garba, O. L. Figueroa-Rodríguez, et al. 2020. The CARE Principles for Indigenous Data Governance. *Data Sci. J.* **19**:43. [5]
- Carter, K. W., R. W. Francis, K. Carter, et al. 2016. ViPAR: A Software Platform for the Virtual Pooling and Analysis of Research Data. *Int. J. Epidemiol.* **45**:408–416. [11]
- Castro-Ramirez, F., M. Al-Suwaidi, P. Garcia, et al. 2021. Racism and Poverty Are Barriers to the Treatment of Youth Mental Health Concerns. *J. Clin. Child Adolesc. Psychol.* **50**:534–546. [1]
- Catalog of Bias. 2018. Confounding by Indication. <https://catalogofbias.org/biases/confounding-by-indication/> (accessed Nov. 9, 2022). [11]
- Centers for Disease Control and Prevention. 2020. Wide-Ranging Online Data for Epidemiologic Research (WONDER). Centers for Disease Control and Prevention. <https://wonder.cdc.gov/> (accessed Dec. 5, 2023). [10]
- Cesare, N., H. Lee, T. McCormick, E. Spiro, and E. Zagheni. 2018. Promises and Pitfalls of Using Digital Traces for Demographic Research. *Demography* **55**:1979–1999. [12]

- Chancellor, S., S. A. Sumner, C. David-Ferdon, T. Ahmad, and M. de Choudhury. 2021. Suicide Risk and Protective Factors in Online Support Forum Posts: Annotation Scheme Development and Validation Study. *JMIR Ment. Health* **8**:e24471. [10]
- Charreire, H., C. Weber, B. Chaix, et al. 2012. Identifying Built Environmental Patterns Using Cluster Analysis and GIS: Relationships with Walking, Cycling and Body Mass Index in French Adults. *Int. J. Behav. Nutr. Phys. Act.* **9**:59. [6]
- Chary, M., N. Genes, C. Giraud-Carrier, et al. 2017. Epidemiology from Tweets: Estimating Misuse of Prescription Opioids in the USA from Social Media. *J. Med. Toxicol.* **13**:278–286. [10]
- Chen, E., K. Lerman, and E. Ferrara. 2020. Tracking Social Media Discourse About the COVID-19 Pandemic: Development of a Public Coronavirus Twitter Data Set. *JMIR Public Health Surveill.* **6**:e19273. [10]
- Chen, J., J. Chen, A. Liao, et al. 2015. Global Land Cover Mapping at 30 M Resolution: A POK-Based Operational Approach. *ISPRS J. Photogramm. Remote Sens.* **103**:7–27. [7]
- Chen, J., and Y. Wang. 2021. Social Media Use for Health Purposes: Systematic Review. *J. Med. Internet Res.* **23**:e17917. [10]
- Chen, W., and R. Mace. 2019. Large-Scale Cooperation Driven by Reputation, Not Fear of Divine Punishment. *R. Soc. Open Sci.* **6**:190991. [8]
- Chen, X., C. Faviez, S. Schuck, et al. 2018. Mining Patients' Narratives in Social Media for Pharmacovigilance: Adverse Effects and Misuse of Methylphenidate. *Front. Pharmacol.* **9**:541. [4]
- Chenworth, M., J. Perrone, J. S. Love, et al. 2021. Methadone and Suboxone® Mentions on Twitter: Thematic and Sentiment Analysis. *Clin. Toxicol.* **59**:982–991. [10]
- Choi, D.-a., and R. Ewing. 2021. Effect of Street Network Design on Traffic Congestion and Traffic Safety. *Journal of Transport Geography* **96**:103200. [8]
- Christakis, N. A. 2019. *Blueprint: The Evolutionary Origins of a Good Society*. New York: Little, Brown Spark. [9]
- Ciccarone, D. 2021. The Rise of Illicit Fentanyls, Stimulants and the Fourth Wave of the Opioid Overdose Crisis. *Curr. Opin. Psychiatry* **34**:344–350. [10]
- Cinelli, M., G. De Francisci Morales, A. Galeazzi, W. Quattrococchi, and M. Starnini. 2021. The Echo Chamber Effect on Social Media. *PNAS* **118**:e2023301118. [4]
- Clark, B., K. Chatterjee, A. Martin, and A. Davis. 2020. How Commuting Affects Subjective Wellbeing. *Transportation* **47**:2777–2805. [8]
- Cohen, N., M. Chrobok, and O. Caruso. 2020. Google-Truthing to Assess Hot Spots of Food Retail Change: A Repeat Cross-Sectional Street View of Food Environments in the Bronx, New York. *Health Place* **62**:102291. [7]
- Collaborative Group on Hormonal Factors in Breast Cancer. 1997. Breast Cancer and Hormone Replacement Therapy: Collaborative Reanalysis of Data from 51 Epidemiological Studies of 52 705 Women with Breast Cancer and 108 411 Women without Breast Cancer. *Lancet* **350**:1047–1059. [11]
- Collins, R. 1994. Why the Social Sciences Won't Become High-Consensus, Rapid-Discovery Science. *Sociol. Forum* **9**:155–177. [9]
- . 2008. *Violence: A Micro-Sociological Theory*. Princeton: Princeton Univ. Press. [9]
- Connelly, R., C. J. Playford, V. Gayle, and C. Dibben. 2016. The Role of Administrative Data in the Big Data Revolution in Social Science Research. *Soc. Sci. Res.* **59**:1–12. [7]
- Corscadden, K., A. Wile, and E. Yiridoe. 2012. Social License and Consultation Criteria for Community Wind Projects. *Renew. Energy* **44**:392–397. [5]

- Coulmont, B., and P. Simon. 2019. Quels Prénoms Les Immigrés Donnent-Ils À Leurs Enfants en France? *Popul. Soc.* **565**:1–4. [4]
- Couper, M. P., and R. M. Groves. 1996. Social Environmental Impacts on Survey Cooperation. *Qual. Quant.* **30**:173–188. [8]
- Craver, C. F. 2007. *Explaining the Brain: Mechanisms and the Mosaic Unity of Neuroscience*. Oxford: Clarendon Press. [2]
- Cresswell, T. 2004. *Place: A Short Introduction*. Hoboken: Wiley-Blackwell. [4]
- Crystal-Ornelas, R., C. Varadharajan, B. Bond-Lamberty, et al. 2021. A Guide to Using GitHub for Developing and Versioning Data Standards and Reporting Formats. *Earth Space Sci.* **8**:e2021EA001797. [3]
- Cui, Y., K. M. Eccles, R. K. Kwok, et al. 2022. Integrating Multiscale Geospatial Environmental Data into Large Population Health Studies: Challenges and Opportunities. *Toxics* **10**:403. [5]
- Curtis, J. W., A. Curtis, J. Mapes, A. B. Szell, and A. Cinderich. 2013. Using Google Street View for Systematic Observation of the Built Environment: Analysis of Spatio-Temporal Instability of Imagery Dates. *Int. J. Health Geogr.* **12**:53. [1]
- Cuthill, I. 1991. Field Experiments in Animal Behaviour: Methods and Ethics. *Anim. Behav.* **42**:1007–1014. [9]
- D’Evelyn, S. M., J. Jung, E. Alvarado, et al. 2022. Wildfire, Smoke Exposure, Human Health, and Environmental Justice Need to Be Integrated into Forest Restoration and Management. *Curr. Environ. Health Rep.* **3**:366–385. [12]
- Dahlgren, G., and M. Whitehead. 1991. Policies and Strategies to Promote Social Equity in Health: Background Document to WHO Strategy Paper for Europe. Stockholm: Institute for Future Studies. [7]
- Dallaqua, F. B. J. R., Á. L. Fazenda, and F. A. Faria. 2021. Foresteyes Project: Conception, Enhancements, and Challenges. *Future Gener. Comput. Syst.* **124**:422–435. [3]
- Daniels, K. M., L. H. Schinasi, A. H. Auchincloss, C. B. Forrest, and A. V. Diez Roux. 2021. The Built and Social Neighborhood Environment and Child Obesity: A Systematic Review of Longitudinal Studies. *Prev. Med.* **153**:106790. [4]
- Darley, J. M., and B. Latane. 1968. Bystander Intervention in Emergencies: Diffusion of Responsibility. *J. Pers. Soc. Psychol.* **8**:377–383. [9]
- Darwin, C. 1871. *The Descent of Man, and Selection in Relation to Sex*. London: John Murray. [9]
- Dassonville, L., F. Vauglin, A. Jakobsson, and C. Luzet. 2002. Quality Management, Data Quality and Users, Metadata for Geographical Information. In: *Spatial Data Quality*, ed. W. Shi et al., pp. 214–227. London: CRC Press. [6]
- Dávid-Barrett, T. 2019. Network Effects of Demographic Transition. *Sci. Rep.* **9**:2361. [4]
- . 2020. Herding Friends in Similarity-Based Architecture of Social Networks. *Sci. Rep.* **10**:4859. [4]
- . 2022a. Kinship Is a Network Tracking Social Technology, Not an Evolutionary Phenomenon. *arXiv Mar.* **2022**:2204.02336v02331. [4]
- . 2022b. World-Wide Evidence for Gender Difference in Sociality. *arXiv Mar.* **2022**:2203.02964. [4]
- Dávid-Barrett, T., I. Behncke Izquierdo, J. Carney, et al. 2016a. Life Course Similarities on Social Networking Sites. *Adv. Life Course Res.* **30**:84–89. [4]
- Dávid-Barrett, T., and R. I. M. Dunbar. 2012. Cooperation, Behavioural Synchrony and Status in Social Networks. *Journal of Theoretical Biology* **308**:88–95. [4]
- . 2013. Processing Power Limits Social Group Size: Computational Evidence for the Cognitive Costs of Sociality. *Proc. R. Soc. B* **280**:20131151. [4]

- Dávid-Barrett, T., J. Kertesz, A. Rotkirch, et al. 2016b. Communication with Family and Friends across the Life Course. *PLOS ONE* **11**:e0165687. [4]
- Dávid-Barrett, T., A. Rotkirch, J. Carney, et al. 2015. Women Favour Dyadic Relationships, but Men Prefer Clubs: Cross-Cultural Evidence from Social Networking. *PLOS ONE* **10**:e0118329. [4]
- Davies, I. P., R. D. Haugo, J. C. Robertson, and P. S. Levin. 2018. The Unequal Vulnerability of Communities of Color to Wildfire. *PLOS ONE* **13**:e0205825. [12]
- Davis, C. A., O. Varol, E. Ferrara, A. Flammini, and F. Menczer. 2016. BotOrNot: A System to Evaluate Social Bots. In: Proceedings of the 25th International Conference Companion on World Wide Web, pp. 273–274. Montréal: Intl. World Wide Web Conferences Steering Committee. [4]
- Davoudi, A., A. Z. Klein, A. Sarker, and G. Gonzalez-Hernandez. 2020. Towards Automatic Bot Detection in Twitter for Health-Related Tasks. In: AMIA Summits on Translational Science Proc., pp. 136–141. Rockville, MD: AMIA. [4]
- Dawkins, M. S. 2007. Observing Animal Behaviour: Design and Analysis of Quantitative Data. New York: Oxford Univ. Press. [9]
- de Bruin, S., A. Bregt, and M. van de Ven. 2001. Assessing Fitness for Use: The Expected Value of Spatial Data Sets. *Int. J. Geographic. Inf. Sci.* **15**:457–471. [5]
- De Groot, A. D., and J. A. A. Spiekerman. 1969. Methodology: Foundations of Inference and Research in the Behavioral Sciences. Berlin: De Gruyter Mouton. [12]
- de Macedo Oliveira, A. A. A., and R. Hirata Jr. 2021. INACITY: INvestigate and Analyze a CITY. *SoftwareX* **15**:100777. [3]
- de Quadros, J. A. 2020. Determinism and Possibilism: A Critical Epistemological Analysis: Independently Published. [8]
- De Veer, D., A. Drouin, J. Fischer, et al. 2022. How Do Schoolchildren Perceive Litter? Overlooked in Urban but Not in Natural Environments. *J. Environ. Psychol.* **81**:101781. [7]
- de Vries, S., S. van Dillen, P. Groenewegen, and P. Spreeuwenberg. 2013. Streetscape Greenery and Health: Stress, Social Cohesion and Physical Activity as Mediators. *Soc. Sci. Med.* **94**:26–33. [8]
- de Waal, F. B. M. 1989. Peacemaking among Primates. Cambridge, MA: Harvard Univ. Press. [9]
- . 2000. Primates: A Natural Heritage of Conflict Resolution. *Science* **289**:586–590. [9]
- de Waal, F. B. M., and S. D. Preston. 2017. Mammalian Empathy: Behavioural Manifestations and Neural Basis. *Nat. Rev. Neurosci.* **18**:498–509. [9]
- de Waal, F. B. M., and A. van Roosmalen. 1979. Reconciliation and Consolation among Chimpanzees. *Behav. Ecol. Sociobiol.* **5**:55–66. [9]
- Dean, N. 2022. Tracking COVID-19 Infections: Time for Change. *Nature* **602**:185. [12]
- Deville Cavellin, L., S. Weichenthal, R. Tack, et al. 2016. Investigating the Use of Portable Air Pollution Sensors to Capture the Spatial Variability of Traffic-Related Air Pollution. *Environ. Sci. Technol.* **50**:313–320. [7]
- Devlin, J., M.-W. Chang, K. Lee, K. Toutanova, and Google Language A. I. 2019. BERT: Pre-Training of Deep Bidirectional Transformers for Language Understanding. In: Proc. of NAACL-HLT, pp. 4171–4186. Stroudsburg, PA: ACL. [10]
- Dias, M., R. Rocha, and R. R. Soares. 2023. Down the River: Glyphosate Use in Agriculture and Birth Outcomes of Surrounding Populations. *Rev. Econ. Stud.* **90**:2943–2981. [3]

- Dibble, J., A. Prelorndjos, O. Romice, et al. 2017. On the Origin of Spaces: Morphometric Foundations of Urban Form Evolution. *Environ. Plann. B Urban Anal. City Sci.* **46**:707–730. [8]
- Dickert, N., and J. Sugarman. 2005. Ethical Goals of Community Consultation in Research. *Am. J. Public Health* **95**:1123–1127. [5]
- Diderichsen, F., T. Evans, and M. Whitehead. 2001. The Social Basis of Disparities in Health. In: *Challenging Inequities in Health: From Ethics to Action*, ed. M. Whitehead et al., pp. 12–23. Oxford: Oxford Univ. Press. [1]
- Dmowska, A., and T. F. Stepinski. 2018. Spatial Approach to Analyzing Dynamics of Racial Diversity in Large US Cities: 1990–2000–2010. *Comput. Environ. Urban Syst.* **68**:89–96. [8]
- . 2019. Imperfect Melting Pot: Analysis of Changes in Diversity and Segregation of US Urban Census Tracts in the Period of 1990–2010. *Comput. Environ. Urban Syst.* **76**:101–109. [8]
- Dobbs, R., and J. Remes. 2013. Trends: The Shifting Urban Economic Landscape: What Does It Mean for Cities? World Bank’s Sixth Urban Research and Knowledge Symposium. Washington, D.C.: World Bank. [8]
- Dohrenwend, B. P., I. Levav, P. E. Shrout, et al. 1992. Socioeconomic Status and Psychiatric Disorders: The Causation-Selection Issue. *Science* **255**:946–952. [4]
- Doiron, D., E. Setton, E. Seed, M. Shooshtari, and J. Brook. 2018. The Canadian Urban Environmental Health Research Consortium (CANUE): A National Data Linkage Initiative. *Int. J. Popul. Data Sci.* **3**:114. [3]
- Doll, R., R. Peto, J. Boreham, and I. Sutherland. 2004. Mortality in Relation to Smoking: 50 Years’ Observations on Male British Doctors. *Br. Med. J.* **328**:1519. [11]
- Dong, X., A. J. Morales, E. Jahani, et al. 2020. Segregated Interactions in Urban and Online Space. *EPJ Data Sci.* **9**:20. [4]
- Dong, X., Y. Suhara, B. Bozkaya, et al. 2017a. Social Bridges in Urban Purchase Behavior. *ACM Trans. Intell. Syst. Technol.* **9**:1–29. [4, 8]
- Dong, Y., R. A. Johnson, J. Xu, and N. V. Chawla. 2017b. Structural Diversity and Homophily: A Study across More Than One Hundred Big Networks. In: *KDD ‘17: The 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, pp. 807–816. New York: ACM. [4]
- Dong, Y., Y. Yang, J. Tang, Y. Yang, and N. V. Chawla. 2014. Inferring User Demographics and Social Strategies in Mobile Social Networks. In: *KDD ‘14: Proc. of the 20th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, pp. 15–24. New York: ACM. [4]
- Dorn, H., T. Törnros, and A. Zipf. 2015. Quality Evaluation of VGI Using Authoritative Data: A Comparison with Land Use Data in Southern Germany. *ISPRS Int. J. Geo-Inf.* **4**:1657–1671. [7]
- Dredze, M., M. J. Paul, S. Bergsma, and H. Tran. 2013. Carmen: A Twitter Geolocation System with Applications to Public Health. In: *Expanding the Boundaries of Health Informatics Using Artificial Intelligence (Papers from the 2013 AAAI Workshop)*, pp. 20–24. Palo Alto: AAAI Press. [10]
- Drouin, M., D. Miller, S. M. J. Wehle, and E. Hernandez. 2016. Why Do People Lie Online? “Because Everyone Lies on the Internet”. *Comput. Hum. Behav.* **64**:134–142. [4]
- Dubois, H., and A. Ludwinek. 2014. *Quality of Life in Urban and Rural Europe*. Luxembourg: Publications Office of the EU. [8]
- Dudo, A., and J. C. Besley. 2016. Scientists’ Prioritization of Communication Objectives for Public Engagement. *PLOS ONE* **11**:e0148867. [3]

- Dufva, Y. E., H. Westman, U. Khilbom, P. F. Sullivan, and V. Johansson. 2021. Swedish Large-Scale Schizophrenia Study: Why Do Patients and Healthy Controls Participate? *Schizophr. Res.* **228**:360–366. [11]
- Dunbar, R. I. M. 1998. *Grooming, Gossip, and the Evolution of Language*. Cambridge, MA: Harvard Univ. Press. [4]
- Dunbar, R. I. M., and S. Shultz. 2007. Evolution in the Social Brain. *Science* **317**:1344–1347. [4]
- Dunbar, R. I. M., and M. Spoons. 1995. Social Networks, Support Cliques, and Kinship. *Hum. Nat.* **6**:273–290. [4]
- Durkheim, E. 1897. *Le Suicide: Étude Sociologique*. Paris: Presses Universitaires de France. [4]
- Dusetzina, S. B., S. Tyree, A.-M. Meyer, et al. 2014. *Linking Data for Health Services Research: A Framework and Instructional Guide*. AHRQ Methods for Effective Health Care. Rockville, MD: Agency for Healthcare Research and Quality. [12]
- Dutton, K. 2021. *Black-and-White Thinking: The Burden of a Binary Brain in a Complex World*. London: Bantam Press. [4]
- Easley, D., and J. Kleinberg, eds. 2010. *Networks, Crowds, and Markets: Reasoning About a Highly Connected World*. Cambridge: Cambridge Univ. Press. [4]
- Economist. 2017. The World's Most Valuable Resource Is No Longer Oil, but Data. *The Economist* May 6, 2017. [5]
- Egli, V., C. Zinn, L. Mackay, et al. 2019. Viewing Obesogenic Advertising in Children's Neighbourhoods Using Google Street View. *Geographic. Res.* **57**:84–97. [7]
- Eibl-Eibesfeldt, I. 1989. *Human Ethology*. Piscataway: Transaction Publishers. [2, 9]
- EIT Health Scandinavia. 2022. Access to Registers in Denmark [Internet]. <https://www.eithealth-scandinavia.eu/biobanksregisters/access/registers-denmark/> (accessed Nov. 14, 2022). [11]
- EIU. 2022. The Global Liveability Index. <https://www.eiu.com/n/campaigns/global-liveability-index-2022> (accessed Jan. 23, 2024). [8]
- Ejbye-Ernst, P. 2022. Does Third-Party Intervention Matter? A Video-Based Analysis of the Effect of Third-Party Intervention on the Continuation of Interpersonal Conflict Behaviour. *Br. J. Criminol.* **azab121**:78–96. [9]
- Ejbye-Ernst, P., M. R. Lindegaard, and W. Bernasco. 2021. How to Stop a Fight: A Qualitative Video Analysis of How Third-Parties De-Escalate Real-Life Interpersonal Conflicts in Public. *Psychol. Violence* **12**:84–94. [9]
- Ekbia, H., M. Mattioli, I. Kouper, et al. 2015. Big Data, Bigger Dilemmas: A Critical Review. *J. Assoc. Inform. Sci. Technol.* **66**:1523–1545. [12]
- Ekbom, A. 2011. The Swedish Multi-Generation Register. *Methods Mol. Biol.* **675**:215–220. [11]
- Elek, P., D. Kim, and D. P. A. A. Gideon. 2020. Limits of Space Syntax for Urban Design: Axiality, Scale and Sinuosity. *Environment and Planning B* **47**:508–522. [8]
- Elgar, F. J., T. K. Pfortner, I. Moor, et al. 2015. Socioeconomic Inequalities in Adolescent Health 2002-2010: A Time-Series Analysis of 34 Countries Participating in the Health Behaviour in School-Aged Children Study. *Lancet* **385**:2088–2095. [1]
- Elzeni, M., A. Elmokadem, and N. Badawy. 2022. Classification of Urban Morphology Indicators Towards Urban Generation. *Port-Said Engineering Research Journal* **26**:43–56. [8]
- Emmanuel, R., and E. Krüger. 2012. Urban Heat Island and Its Impact on Climate Change Resilience in a Shrinking City: The Case of Glasgow, UK. *Build. Environ.* **53**:137–149. [7]

- Eva, G., G. Liese, B. Stephanie, et al. 2022. Position Paper on Management of Personal Data in Environment and Health Research in Europe. *Environ. Int.* **165**:107334. [3]
- Eysenbach, G. 2009. Infodemiology and Infoveillance: Framework for an Emerging Set of Public Health Informatics Methods to Analyze Search, Communication and Publication Behavior on the Internet. *J. Med. Internet Res.* **11**:e11. [10]
- Fair, L. 2022. FTC Says Data Broker Sold Consumers' Precise Geolocation, Including Presence at Sensitive Healthcare Facilities. FTC Business Blog. <https://www.ftc.gov/business-guidance/blog/2022/08/ftc-says-data-broker-sold-consumers-precise-geolocation-including-presence-sensitive-healthcare> (accessed Nov. 1, 2022). [3]
- Fairchild, A. L. 2015. The Right to Know, the Right to Be Counted, the Right to Resist: Cancer, AIDS, and the Politics of Privacy and Surveillance in Post-War America. *J. Med. Law Ethics* **3**:45–64. [5]
- Fan, C., Y. Jiang, and A. Mostafavi. 2020. Social Sensing in Disaster City Digital Twin: Integrated Textual–Visual–Geo Framework for Situational Awareness during Built Environment Disruptions. *J. Manage. Eng.* **36**:me.1943–5479.0000745. [7]
- Fan, R., O. Varol, A. Varamesh, et al. 2018. The Minute-Scale Dynamics of Online Emotions Reveal the Effects of Affect Labeling. *Nat. Hum. Behav.* **3**:92–100. [10]
- Fani, L., M. K. Georgakis, M. A. Ikram, et al. 2021. Circulating Biomarkers of Immunity and Inflammation, Risk of Alzheimer's Disease, and Hippocampal Volume: A Mendelian Randomization Study. *Transl. Psychiatry* **11**:291. [1]
- Fauzie, A. K. 2015. Impacts of Urbanization on Mental Health and Problem Behaviour. *Int. J. Multidiscip. Res. Dev.* **2**:87–89. [8]
- Fayyad, U., G. Piatesky-Shapiro, and P. Smyth. 1996. From Data Mining to Knowledge Discovery in Databases. *AI Mag.* **17**:37. [12]
- Federal Trade Commission. 2014. Data Brokers: A Call for Transparency and Accountability. <https://www.ftc.gov/system/files/documents/reports/data-brokers-call-transparency-accountability-report-federal-trade-commission-may-2014/140527databrokerreport.pdf> (accessed Oct. 7, 2022). [5]
- Feest, U. 2016. The Experimenters' Regress Reconsidered: Replication, Tacit Knowledge, and the Dynamics of Knowledge Generation. *Stud. Hist. Phil. Sci. A* **58**:34–45. [5]
- Felson, R. B. 1982. Impression Management and the Escalation of Aggression and Violence. *Soc. Psychol. Q.* **45**:245–254. [9]
- Few, S. 2019. *The Data Loom: Weaving Understanding by Thinking Critically and Scientifically with Data*. El Dorado Hills, CA: Analytics Press. [3]
- Findata. The Finnish Health and Social Data Permit Authority. <https://findata.fi/en/what-is-findata/> (accessed Nov. 9, 2022). [11]
- Fischer, P., J. I. Krueger, T. Greitemeyer, et al. 2011. The Bystander-Effect: A Meta-Analytic Review on Bystander Intervention in Dangerous and Non-Dangerous Emergencies. *Psychol. Bull.* **137**:517–537. [9]
- Fisher, J., E. Rankin, K. Irvine, and M. Goddard. 2022. Can Biodiverse Streetscapes Mitigate the Effects of Noise and Air Pollution on Human Wellbeing? *Environ. Res.* **212**:113154. [8]
- Flack, J. C. 2017. Coarse-Graining as a Downward Causation Mechanism. *Philos. Trans. A Math. Phys. Eng. Sci.* **375**:20160338. [2]
- Fleischmann, M., O. Romice, and S. Porta. 2020. Measuring Urban Form: Overcoming Terminological Inconsistencies for a Quantitative and Comprehensive Morphologic Analysis of Cities. *Environ. Plann. B Urban Anal. City Sci.* **48**:2133–2150. [8]

- Fleitas Alfonso, L., T. King, E. You, et al. 2022. Theoretical Explanations for Socioeconomic Inequalities in Multimorbidity: A Scoping Review. *BMJ Open* **12**:e055264. [4]
- Flores, L., and S. D. Young. 2021. Regional Variation in Discussion of Opioids on Social Media. *J. Addict. Dis.* **39**:316–321. [10]
- Foster, N. 2020. The Pandemic Will Accelerate the Evolution of Our Cities. <https://www.theguardian.com/commentisfree/2020/sep/24/pandemic-accelerate-evolution-cities-covid-19-norman-foster> (accessed Jan. 23, 2024). [8]
- Fowden, A. L., O. R. Vaughan, A. J. Murray, and A. J. Forhead. 2022. Metabolic Consequences of Glucocorticoid Exposure before Birth. *Nutrients* **14**:2072–6643. [1]
- Fox, C., A. Levitin, and T. Redman. 1994. The Notion of Data and Its Quality Dimensions. *Inf. Process. Manag.* **30**:9–19. [5]
- Franck, G. 2019. The Economy of Attention. *J. Sociol.* **55**:8–19. [4]
- Frank, L. D., N. Iroz-Elardo, K. E. MacLeod, and A. Hong. 2019. Pathways from Built Environment to Health: A Conceptual Framework Linking Behavior and Exposure-Based Impacts. *J. Transp. Health* **12**:319–335. [7]
- Frick, S. A., and A. Rodríguez-Pose. 2018. Big or Small Cities? On City Size and Economic Growth. *Growth Change* **49**:4–32. [8]
- Friedman, B., and D. Hendry. 2019. Value Sensitive Design: Shaping Technology with Moral Imagination. Cambridge, MA: MIT Press. [5]
- Friis, C. B. 2022. Ticket Inspection in Action: Managing Impressions, Status, and Emotions in Contested Everyday Encounters. PhD dissertation, Univ. of Copenhagen, Copenhagen. [9]
- Friis, C. B., L. S. Liebst, R. Philpot, and M. R. Lindegaard. 2020. Ticket Inspectors in Action: Body-Worn Camera Analysis of Aggressive and Nonaggressive Passenger Encounters. *Psychol. Violence* **10**:483–492. [9]
- Fry, D., S. J. Mooney, D. A. Rodríguez, W. T. Caiaffa, and G. S. Lovasi. 2020. Assessing Google Street View Image Availability in Latin American Cities. *J. Urban Health* **97**:1–9. [3]
- Fujita, M., P. R. Krugman, and A. Venables. 2001. The Spatial Economy: Cities, Regions, and International Trade. Cambridge, MA: MIT Press. [8]
- Fujita, M., and T. Mori. 1996. The Role of Ports in the Making of Major Cities: Self-Agglomeration and Hub-Effect. *Journal of Development Economics* **49**:93–120. [8]
- Fuller, D., and K. G. Stanley. 2019. The Future of Activity Space and Health Research. *Health Place* **58**:102131. [7]
- Gagolewski, M. 2015. Data Fusion: Theory, Methods, and Applications. Institute of Computer Science. Warsaw: Polish Academy of Sciences. [5]
- Galbete, C., M. Nicolaou, K. A. Meeks, et al. 2017. Food Consumption, Nutrient Intake, and Dietary Patterns in Ghanaian Migrants in Europe and Their Compatriots in Ghana. *Food Nutr. Res.* **61**:1341809. [4]
- Gallo, P., and H. Kettani. 2020. On Privacy Issues with Google Street View. *South Dakota Law Rev.* **65**:608. [3]
- Garcia-Castellanos, D., and U. Lombardo. 2007. Poles of Inaccessibility: A Calculation Algorithm for the Remotest Places on Earth. *Scott. Geographic. J.* **123**:227–233. [6]
- Garcia Coll, C., and A. K. Marks. 2011. The Immigrant Paradox in Children and Adolescents: Is Becoming American a Risk Factor? Washington, D.C.: American Psychological Association. [2]

- Garg, K., H. R. Jayanetti, S. Alam, M. C. Weigle, and M. L. Nelson. 2021. Replaying Archived Twitter: When Your Bird Is Broken, Will It Bring You Down? In: 2021 ACM/IEEE Joint Conference on Digital Libraries (JCDL), pp. 160–169. New York: ACM. [4]
- . 2023. Challenges in Replaying Archived Twitter Pages. *Int. J. Digit. Libr.* **2023**:10.1007/s00799-00023-00379-w. [4]
- Gaubatz, K. T. 2015. A Survivor's Guide to R: An Introduction for the Uninitiated and the Unnerved. <https://methods.sagepub.com/book/a-survivors-guide-to-r>. (accessed Nov. 7, 2022). [5]
- Geertz, C. 1973. *The Interpretation of Cultures: Selected Essays*. New York: Basic Books. [9]
- Gelman, A. 2020. Assessing Evidence vs. Truth in the Coronavirus Pandemic. *Chance* **33**:58–60. [12]
- Gelman, A., and B. Carpenter. 2020. Bayesian Analysis of Tests with Unknown Specificity and Sensitivity. *J. R. Stat. Soc. Ser. C* **69**:1269–1283. [12]
- Gelman, A., and C. Hennig. 2017. Beyond Subjective and Objective in Statistics. *J. R. Stat. Soc. Ser. A* **180**:967–1033. [12]
- Gene Ontology Consortium. 2018. The Gene Ontology Resource: 20 Years and Still Going Strong. *Nucleic Acids Res.* **47**:D330–D338. [5]
- Gerrard, G., and R. Thompson. 2011. Two Million Cameras in the UK. *CCTV Image* **42**:9–12. [9]
- Gerts, D., C. D. Shelley, N. Parikh, et al. 2021. “Thought I’d Share First” and Other Conspiracy Theory Tweets from the COVID-19 Infodemic: Exploratory Study. *JMIR Public Health Surveill.* **7**:e26527. [10]
- Getoor, L., and A. Machanavajjhala. 2012. Entity Resolution: Theory, Practice and Open Challenges. *Proc. VLDB Endow.* **5**:2018–2019. [12]
- Giannouchos, T. V., A. O. Ferdinand, G. Ilangovan, et al. 2021. Identifying and Prioritizing Benefits and Risks of Using Privacy-Enhancing Software through Participatory Design: A Nominal Group Technique Study with Patients Living with Chronic Conditions. *J. Am. Med. Inform. Assoc.* **28**:1746–1745. [12]
- Gilbert, R., R. Lafferty, G. Hagger-Johnson, et al. 2017. Guild: Guidance for Information about Linking Data Sets. *J. Public Health* **40**:191–198. [12]
- Gill, I. S., and C.-C. Goh. 2010. Scale Economies and Cities. *World Bank Res. Observ.* **25**:235–262. [8]
- Goel, R., L. M. T. Garcia, A. Goodman, et al. 2018. Estimating City-Level Travel Patterns Using Street Imagery: A Case Study of Using Google Street View in Britain. *PLOS ONE* **13**:e0196521. [7]
- Goffman, E. 1971. *Relations in Public: Microstudies of the Public Order*. New York: Basic Books. [9]
- Golinelli, D., E. Boetto, G. Carullo, et al. 2020. Adoption of Digital Technologies in Health Care During the COVID-19 Pandemic: Systematic Review of Early Scientific Literature. *J. Med. Internet Res.* **22**:e22280. [10]
- Gong, P., H. Liu, M. Zhang, et al. 2019. Stable Classification with Limited Sample: Transferring a 30-M Resolution Sample Set Collected in 2015 to Mapping 10-M Resolution Global Land Cover in 2017. *Sci. Bull.* **64**:370–373. [7]
- Gong, P., J. Wang, L. Yu, et al. 2013. Finer Resolution Observation and Monitoring of Global Land Cover: First Mapping Results with Landsat TM and ETM+ Data. *Int. J. Remote Sens.* **34**:2607–2654. [7]
- González-Padilla, D. A., and L. Tortolero-Blanco. 2020. Social Media Influence in the COVID-19 Pandemic. *Int. Braz. J. Urol.* **46**:120–124. [10]

- Goodchild, M. F. 2007. Citizens as Sensors: The World of Volunteered Geography. *GeoJournal* **69**:211–221. [7]
- Goodman, A., A. Pepe, A. W. Blocker, et al. 2014. Ten Simple Rules for the Care and Feeding of Scientific Data. *PLoS Comput. Biol.* **10**:1–5. [12]
- Goold, B. J. 2006. Open to All? Regulating Open Street CCTV and the Case for “Symmetrical Surveillance”. *Crim. Justice Ethics* **25**:3–17. [9]
- Gorelick, N., M. Hancher, M. Dixon, et al. 2017. Google Earth Engine: Planetary-Scale Geospatial Analysis for Everyone. *Remote Sens. Environ.* **202**:18–27. [7]
- Gorelik, A. 2019. The Enterprise Big Data Lake: Delivering the Promise of Big Data and Data Science. Sebastopol, CA: O’Reilly Media. [3]
- GOV.UK. 2012a. Definition of Policing by Consent. <https://www.gov.uk/government/publications/policing-by-consent/definition-of-policing-by-consent> (accessed Dec. 30, 2023). [3]
- . 2012b. Protection of Freedoms Act 2012. <https://www.legislation.gov.uk/ukpga/2012/9/contents/enacted> (accessed Dec. 30, 2023). [3]
- Granovetter, M. S. 1973. The Strength of Weak Ties. *Am. J. Sociol.* **78**:1360–1380. [4]
- Grasby, K. L., N. Jahanshad, J. N. Painter, et al. 2020. The Genetic Architecture of the Human Cerebral Cortex. *Science* **367**:eaay6690. [1]
- Graves, R. L., J. Perrone, M. A. Al-Garadi, et al. 2022. Thematic Analysis of reddit Content About Buprenorphine-Naloxone Using Manual Annotation and Natural Language Processing Techniques. *J. Addict. Med.* **16**:454–460. [10]
- Greenland, S., and R. Neutra. 1980. Control of Confounding in the Assessment of Medical Technology. *Int. J. Epidemiol.* **9**:361–367. [11]
- Grigoriev, P., and M. Pechholdová. 2017. Health Convergence between East and West Germany as Reflected in Long-Term Cause-Specific Mortality Trends: To What Extent Was It Due to Reunification? *Eur. J. Popul.* **33**:701–731. [4]
- Groen, J. A. 2012. Sources of Error in Survey and Administrative Data: The Importance of Reporting Procedures. *J. Off. Stat.* **28**:173–198. [7]
- Gröger, G., and B. George. 2022. Geometry and Topology. In: Springer Handbook of Geographic Information, ed. W. Kresse and D. Danko, pp. 297–313, Springer Handbooks. Cham: Springer. [6]
- Grolemund, G., and H. Wickham. 2014. A Cognitive Interpretation of Data Analysis. *Int. Stat. Rev.* **82**:184–204. [12]
- Gruber, T., and Z. Clay. 2016. A Comparison between Bonobos and Chimpanzees: A Review and Update. *Evol. Anthropol.* **25**:239–252. [4]
- Guo, D., and E. Onstein. 2020. State-of-the-Art Geospatial Information Processing in NoSQL Databases. *ISPRS Int. J. Geo-Inf.* **9**:331. [6]
- Guo, J.-W., S. M. Sisler, C.-Y. Wang, and A. S. Wallace. 2021. Exploring Experiences of COVID-19-Positive Individuals from Social Media Posts. *Int. J. Nurs. Pract.* **27**:e12986. [10]
- Gupta, A., and R. Katarya. 2020. Social Media Based Surveillance Systems for Healthcare Using Machine Learning: A Systematic Review. *J. Biomed. Inform.* **108**:103500. [10]
- Guttman, A. 1984. R-Trees. *ACM SIGMOD Record* **14**:47–57. [6]
- Haas, L. M., E. T. Lin, and M. A. Roth. 2002. Data Integration through Database Federation. *IBM Syst. J.* **41**:578–596. [11]
- Haklay, M. 2010. How Good Is Volunteered Geographical Information? A Comparative Study of Openstreetmap and Ordnance Survey Datasets. *Environ. Plann. B Plann. Des.* **37**:682–703. [7]

- Hall, R., and S. E. Fienberg. 2010. Privacy-Preserving Record Linkage. In: *Privacy in Statistical Databases*, ed. J. Domingo-Ferrer and E. Magkos, pp. 269–283. Heidelberg: Springer. [12]
- Hallinan, D., A. Bernier, A. Cambon-Thomsen, et al. 2021. International Transfers of Personal Data for Health Research Following Schrems II: A Problem in Need of a Solution. *Eur. J. Hum. Genet.* **29**:1502–1509. [5, 11]
- Haneef, R., M. Tijhuis, R. Thiébaud, et al. 2022. Methodological Guidelines to Estimate Population-Based Health Indicators Using Linked Data and/or Machine Learning Techniques. *Arch. Public Health* **80**:9. [12]
- Haneuse, S., and S. Bartell. 2011. Designs for the Combination of Group- and Individual-Level Data. *Epidemiology* **22**:382–389. [5]
- Hang, J., M. Sandberg, and Y. Li. 2009. Effect of Urban Morphology on Wind Condition in Idealized City Models. *Atmos. Environ.* **43**:869–878. [8]
- Hansen, M. C., P. V. Potapov, R. Moore, et al. 2013. High-Resolution Global Maps of 21st-Century Forest Cover Change. *Science* **342**:850–853. [7]
- Hardjono, T., D. L. Shrier, and A. S. Pentland. 2019. *Trusted Data*, revised and Expanded edition. A New Framework for Identity and Data Sharing. Cambridge, MA: MIT Press. [8]
- Hargittai, E. 2020. Potential Biases in Big Data: Omitted Voices on Social Media. *Soc. Sci. Comput. Rev.* **38**:10–24. [4]
- Harrigan, K. 2018. Geocoding without Geotags: A Text-Based Approach for reddit. In: *Proc. of the 2018 EMNLP Workshop W-Nut: The 4th Workshop on Noisy User-Generated Text*, pp. 17–27. Stroudsburg, PA: ACL. [4, 10]
- Harron, K., A. Wade, R. Gilbert, B. Muller-Pebody, and H. Goldstein. 2014. Evaluating Bias Due to Data Linkage Error in Electronic Healthcare Records. *BMC Med. Res. Methodol.* **14**:36. [12]
- Harron, K. L., J. C. Doidge, H. E. Knight, et al. 2017. A Guide to Evaluating Linkage Quality for the Analysis of Linked Data. *Int. J. Epidemiol.* **46**:1699–1710. [12]
- Hart, E. M., P. Barmby, D. LeBauer, et al. 2016. Ten Simple Rules for Digital Data Storage. *PLoS Comput. Biol.* **12**:e1005097. [3]
- Hashimov, A., I. Pathiddinov, M. Makhmutova, et al. 2013. *Urbanization in Central Asia: Challenges, Issues and Prospects*. Tashkent, Uzbekistan: Center for Economic Research. [8]
- Heaviside, C., X. M. Cai, and S. Vardoulakis. 2015. The Effects of Horizontal Advection on the Urban Heat Island in Birmingham and the West Midlands, United Kingdom during a Heatwave. *Q. J. R. Meteorol. Soc.* **141**:cj.2452. [7]
- Heinskou, M. B., and L. S. Liebst. 2016. On the Elementary Neural Forms of Micro-Interactional Rituals: Integrating Autonomic Nervous System Functioning into Interaction Ritual Theory. *Sociol. Forum* **31**:354–376. [9]
- Heisenberg, W. 1958. *The Revolution in Modern Science*. Amherst, N.Y.: Prometheus Books. [2]
- Helbich, M., Y. Yao, Y. Liu, et al. 2019. Using Deep Learning to Examine Street View Green and Blue Spaces and Their Associations with Geriatric Depression in Beijing, China. *Environ. Int.* **126**:107–117. [7]
- Helweg-Larsen, K. 2011. The Danish Register of Causes of Death. *Scand. J. Public Health* **39**:26–29. [11]
- Hemati, M., M. Hasanlou, M. Mahdianpari, and F. Mohammadimanesh. 2021. A Systematic Review of Landsat Data for Change Detection Applications: 50 Years of Monitoring the Earth. *Remote Sens.* **13**:2869. [7]

- Henrich, J., S. J. Heine, and A. Norenzayan. 2010. The WEIRD People in the World. *Brain Behav. Sci.* **33**:61–83. [2]
- Henssler, J., L. Brandt, M. Müller, et al. 2020. Migration and Schizophrenia: Meta-Analysis and Explanatory Framework. *Eur. Arch. Psychiatry Clin. Neurosci.* **270**:325–335. [4]
- Hermosilla, T., J. Palomar, A. Balaguer Beser, J. Balsa Barreiro, and L. A. Ruiz. 2014. Using Street Based Metrics to Characterize Urban Typologies. *Comput. Environ. Urban Syst.* **44**:68–79. [8]
- Hern, M. 2017. *What a City Is For: Remaking the Politics of Displacement*. Cambridge, MA: MIT Press. [8]
- Hernández, M. A., and S. J. Stolfo. 1998. Real-World Data Is Dirty: Data Cleansing and the Merge/Purge Problem. *Data Min. Knowl. Discov.* **2**:9–37. [5]
- Herring, J., C. Roswell, and D. Danko. 2022. Modeling of Geographic Information. In: *Springer Handbook of Geographic Information*, ed. W. Kresse and D. Danko, pp. 3–19, Springer Handbooks. Cham: Springer. [6]
- Herzog, T. N., F. J. Scheuren, and W. E. Winkler. 2007. *Data Quality and Record Linkage Techniques*. New York: Springer. [5]
- Hickman, C., E. Marks, P. Pihkala, et al. 2021. Climate Anxiety in Children and Young People and Their Beliefs about Government Responses to Climate Change: A Global Survey. *Lancet Planet Health* **5**:e863–e873. [1]
- Hicks, D. J. 2021. Open Science, the Replication Crisis, and Environmental Public Health. *Account. Res.* 1–29. [5]
- Hill, A. B. 1965. The Environment and Disease: Association or Causation? *Proc. R. Soc. Med.* **58**:295–300. [2]
- Hill, R. A., and R. I. M. Dunbar. 2003. Social Network Size in Humans. *Hum. Nat.* **14**:53–72. [4]
- Hillier, B. 1996. *Space Is the Machine*. Cambridge: Cambridge Univ. Press. [8]
- Hiss, T. 1991. *The Experience of Place: A New Way of Looking at and Dealing with Our Radically Changing Cities and Countryside*. New York: Knopf Doubleday. [8]
- Hoel, E. 2022. Big Data Analytics. In: *Springer Handbook of Geographic Information*, ed. W. Kresse and D. Danko, pp. 107–118, Springer Handbooks. Cham: Springer. [6]
- Höfler, M. 2005. Causal Inference Based on Counterfactuals. *BMC Med. Res. Methodol.* **5**:1–12. [2]
- Hollenbaugh, E. E., and A. L. Ferris. 2015. Predictors of Honesty, Intent, and Valence of Facebook Self-Disclosure. *Comput. Hum. Behav.* **50**:456–464. [4]
- Hong, S., M. R. Jahng, N. Lee, and K. R. Wise. 2020. Do You Filter Who You Are?: Excessive Self-Presentation, Social Cues, and User Evaluations of Instagram Selfies. *Comput. Hum. Behav.* **104**:106159. [4]
- Horning, N. 2019. Remote Sensing. In: *Encyclopedia of Ecology*, ed. B. B. T. Fath, pp. 404–413. Oxford: Elsevier. [7]
- Hossain, L., D. Kam, F. Kong, R. T. Wigand, and T. Bossomaier. 2016. Social Media in Ebola Outbreak. *Epidemiol. Infect.* **144**:2136–2143. [4]
- Houlden, V., S. Weich, J. P. de Albuquerque, S. Jarvis, and K. Rees. 2018. The Relationship between Greenspace and the Mental Wellbeing of Adults: A Systematic Review. *PLOS ONE* **13**:e0203000. [7]
- Houston, D. 2014. Implications of the Modifiable Areal Unit Problem for Assessing Built Environment Correlates of Moderate and Vigorous Physical Activity. *Appl. Geogr.* **50**:40–47. [7]
- Huang, D., A. Brien, L. Omari, et al. 2020. Bus Stops near Schools Advertising Junk Food and Sugary Drinks. *Nutrients* **12**:1192. [7]

- Huang, Y., M. Yuan, Y. Sheng, X. Min, and Y. Cao. 2019. Using Geographic Ontologies and Geo-Characterization to Represent Geographic Scenarios. *ISPRS Int. J. Geo-Inf.* **8**:566. [5]
- Huber, P. J. 1996. Massive Data Sets Workshop: The Morning After. Massive Data Sets: Proceedings of a Workshop. Washington, D.C.: National Academies Press. [2]
- Hui, C. H., and H. C. Triandis. 1985. Measurement in Cross-Cultural Psychology: A Review and Comparison of Strategies. *J. Cross Cult. Psychol.* **16**:131–152. [2]
- Hulkower, R., M. Penn, and C. Schmit. 2020. Privacy and Confidentiality of Public Health Information. In: Public Health Informatics and Information Systems, ed. J. A. Magnuson and B. E. Dixon, pp. 147–166. Cham: Springer. [5]
- IARC Working Group on the Evaluation of Carcinogenic Risks to Humans. 2013. Non-Ionizing Radiation, Part 2: Radiofrequency Electromagnetic Fields. Lyon: Intl. Agency for Research on Cancer. [11]
- Ibrahim, M. R., J. Haworth, and T. Cheng. 2021. URBAN-i: From Urban Scenes to Mapping Slums, Transport Modes, and Pedestrians in Cities Using Deep Learning and Computer Vision. *Environ. Plann. B Urban Anal. City Sci.* **48**:76–93. [7]
- Ienca, M., A. Ferretti, S. Hurst, et al. 2018. Considerations for Ethics Review of Big Data Health Research: A Scoping Review. *PLOS ONE* **13**:e0204937. [5]
- Imran, M., S. Khan, A. A. Nassani, et al. 2023. Access to Sustainable Healthcare Infrastructure: A Review of Industrial Emissions, Coal Fires, and Particulate Matter. *Environ. Sci. Pollut. Res. Int.* **30**:69080–69095. [1]
- Ioannidis, J. P. A. 2005. Why Most Published Research Findings Are False. *PLOS Med.* **2**:e124. [5, 11]
- İşikdağ, Ü. 2020. An IoT Architecture for Facilitating Integration of Geoinformation. *Int. J. Engineer. Geosci.* **5**:15–25. [6]
- Jacobs, J. 1961. The Death and Life of Great American Cities. New York: Random House. [8]
- Jain, M., J. C. Van Gemert, and C. G. Snoek. 2015. What Do 15,000 Object Categories Tell Us about Classifying and Localizing Actions? In: Proc. of the IEEE Conference on Computer Vision and Pattern Recognition, pp. 46–55. Piscataway: IEEE. [9]
- Jalal, H., J. M. Buchanich, M. S. Roberts, et al. 2018. Changing Dynamics of the Drug Overdose Epidemic in the United States from 1979 through 2016. *Science* **361**:eaau1184. [10]
- Jijelava, D., and F. Vanclay. 2017. Legitimacy, Credibility and Trust as the Key Components of a Social Licence to Operate: An Analysis of BP's Projects in Georgia. *J. Clean. Prod.* **140**:1077–1086. [5]
- Jo, H.-H., J. Saramäki, R. I. M. Dunbar, and K. Kaski. 2014. Spatial Patterns of Close Relationships across the Lifespan. *Sci. Rep.* **4**:6988. [4, 5]
- Jones, L. K., B. M. Jennings, M. K. Higgins, and F. B. M. De Waal. 2018. Ethological Observations of Social Behavior in the Operating Room. *PNAS* **115**:7575–7580. [9]
- Kain, J.-H., M. Adelfio, J. Stenberg, and L. Thuvander. 2022. Towards a Systemic Understanding of Compact City Qualities. *J. Urban Des.* **27**:130–147. [8]
- Kam, C. C.-S., and M. H. Bond. 2009. Emotional Reactions of Anger and Shame to the Norm Violation Characterizing Episodes of Interpersonal Harm. *Br. J. Soc. Psychol.* **48**:203–219. [4]
- Kamdar, M. R., J. D. Fernández, A. Polleres, T. Tudorache, and M. A. Musen. 2019. Enabling Web-Scale Data Integration in Biomedicine through Linked Open Data. *npj Digit. Med.* **2**:90. [5]
- Kardan, O., P. Gozdyra, B. Mistic, et al. 2015. Neighborhood Greenspace and Health in a Large Urban Center. *Sci. Rep.* **5**:11610. [1]

- Karim, M., M. Ramezani, T. Sunbury, R. L. Ohsfeldt, and H.-C. Kum. 2021. VIEW: A Framework for Organization Level Interactive Record Linkage to Support Reproducible Data Science. *arXiv* **2102**:08273. [12]
- Kawachi, I., and L. F. Berkman. 2014. Social Capital, Social Cohesion, and Health. In: *Social Epidemiology*, ed. L. F. Berkman et al., pp. 290–319. New York: Oxford Univ. Press. [4]
- Keller, H. 2021. *The Myth of Attachment Theory*. New York: Routledge. [2]
- Keller, H., and K. A. Bard, eds. 2017. *Contextualizing Attachment: The Cultural Nature of Attachment*. Strüngmann Forum Reports, vol. 22. J. R. Lupp, series ed. Cambridge, MA: MIT Press. [2]
- Keller, H., and N. Chaudhary. 2017. Is the Mother Essential for Attachment? Models of Care in Different Cultures. In: *Contextualizing Attachment: The Cultural Nature of Attachment*, ed. H. Keller and K. H. Bard, pp. 109–138, Strüngmann Forum Reports, vol. 22, J. R. Lupp, series ed. Cambridge, MA: MIT Press. [2]
- Kendler, K. S., C. O. Gardner, and C. A. Prescott. 2003. Personality and the Experience of Environmental Adversity. *Psychol. Med.* **33**:1193–1202. [1]
- Kerry, C. 2021. *The Oracle at Luxembourg: The EU Court of Justice Judges the World on Surveillance and Privacy*. Washington, D.C.: Brookings. [5]
- Khaled, M., G. W. Corner, A. Morris, et al. 2021. Physiological Linkage in Pregnancy: Couples' Cortisol, Negative Conflict Behavior, and Postpartum Depression. *Biol. Psychol.* **161**:108075. [1]
- Khemlani, S. S., A. K. Barbey, and P. N. Johnson-Laird. 2014. Causal Reasoning with Mental Models. *Front. Hum. Neurosci.* **8**:849. [2]
- Khraishah, H., B. Alahmad, R. L. Ostergard, Jr., et al. 2022. Climate Change and Cardiovascular Disease: Implications for Global Health. *Nat. Rev. Cardiol.* **19**:798–812. [1]
- Kimpton, A., J. Corcoran, and R. Wickes. 2016. Greenspace and Crime: An Analysis of Greenspace Types, Neighboring Composition, and the Temporal Dimensions of Crime. *J. Res. Crime Delinq.* **54**:303–337. [8]
- King, G. 2007. An Introduction to the Dataverse Network as an Infrastructure for Data Sharing. *Sociol. Methods Res.* **36**:173–199. [3]
- Kısar Koramaz, E. 2014. The Spatial Context of Social Integration. *Social Indicators Research* **119**:49–71. [8]
- Kivimaki, M., G. D. Batty, J. Pentti, et al. 2020. Association between Socioeconomic Status and the Development of Mental and Physical Health Conditions in Adulthood: A Multi-Cohort Study. *Lancet Public Health* **5**:e140–e149. [1]
- Klau, S., S. Hoffmann, C. J. Patel, J. P. Ioannidis, and A. L. Boulesteix. 2021. Examining the Robustness of Observational Associations to Model, Measurement and Sampling Uncertainty with the Vibration of Effects Framework. *Int. J. Epidemiol.* **50**:266–278. [5]
- Klein, M., K. Barg, and M. Kühhirt. 2018. Inequality of Educational Opportunity in East and West Germany: Convergence or Continued Differences. *Sociol. Sci.* **6**:1–26. [4]
- Knight, A., S. Sandin, and J. Askling. 2010. Occupational Risk Factors for Wegener's Granulomatosis: A Case-Control Study. *Ann. Rheum. Dis.* **69**:737–740. [11]
- Knowles, D. 2023. How Tokyo Became an Anti-Car Paradise. <https://heatmap.news/economy/tokyo-anti-car-pedestrian-paradise> (accessed Jan. 23, 2024). [8]
- Kolbe, T. H. 2009. Representing and Exchanging 3D City Models with CityGML. In: *3D Geo-Information Sciences*, ed. J. Lee and S. Zlatanova, pp. 15–31, Lecture Notes in Geoinformation and Cartography. Berlin: Springer. [6]

- Kolle, S., B. Hughes, and H. Steele. 2020. Early Embryo-Maternal Communication in the Oviduct: A Review. *Mol. Reprod. Dev.* **87**:650–662. [1]
- Kolodny, A., and T. R. Frieden. 2017. Ten Steps the Federal Government Should Take Now to Reverse the Opioid Addiction Epidemic. *JAMA* **318**:1537. [10]
- Kon, F., É. C. Ferreira, H. A. de Souza, et al. 2022. Abstracting Mobility Flows from Bike-Sharing Systems. *Public Trans.* **14**:545–581. [3]
- Kopec, D. 2012. *Environmental Psychology for Design*. New York: Fairchild Books. [8]
- Korte, C., and N. Ayvalioglu. 1981. Helpfulness in Turkey: Cities, Towns, and Urban Villages. *J. Cross Cult. Psychol.* **12**:123–141. [8]
- Korte, C., and N. Kerr. 1975. Response to Altruistic Opportunities in Urban and Nonurban Settings. *J. Soc. Psychol.* **95**:183–184. [8]
- Kossinets, G., and D. J. Watts. 2009. Origins of Homophily in an Evolving Social Network. *Am. J. Sociol.* **115**:405–450. [4]
- Kotkin, J. 2020. The Coming Age of Dispersion. <https://quilllette.com/2020/03/25/the-coming-age-of-dispersion/> (accessed Jan. 23, 2024). [8]
- Kovacs-Györi, A., A. Ristea, R. Kolcsar, et al. 2018. Beyond Spatial Proximity- Classifying Parks and Their Visitors in London Based on Spatiotemporal and Sentiment Analysis of Twitter Data. *ISPRS Int. J. Geo-Inf.* **7**:378. [7]
- Kovanen, L., K. Kaski, J. Kertész, and J. Saramäki. 2013. Temporal Motifs Reveal Homophily, Gender-Specific Patterns, and Group Talk in Call Sequences. *PNAS* **110**:18070–18075. [5]
- Kraak, M.-J., and F. Ormeling. 2021. *Cartography: Visualization of Geospatial Data*. Boca Raton: CRC Press. [6]
- Krakauer, D., N. Bertschinger, E. Olbrich, J. C. Flack, and N. Ay. 2020. The Information Theory of Individuality. *Theory Biosci.* **139**:209–223. [2]
- Kresse, W. H., and D. Danko, eds. 2022. *Springer Handbook of Geographic Information*. Springer Handbooks, vol. Cham: Springer. [6]
- Kresse, W. H., D. Danko, and K. Fadaie. 2022. Standardization. In: *Springer Handbook of Geographic Information*, ed. W. Kresse and D. Danko, pp. 383–492, Springer Handbooks. Cham: Springer. [6]
- Krieg, S. J., J. J. Schnur, J. D. Marshall, M. M. Schoenbauer, and N. V. Chawla. 2020. Pandemic Pulse: Unraveling and Modeling Social Signals During the COVID-19 Pandemic. *Digit. Gov. Res. Pract.* **2**:1–9. [4]
- Krier, R. 1979. *Urban Space*. New York: Rizzoli Intl. Publ. [8]
- Kriesberg, A., and A. Acker. 2022. The Second US Presidential Social Media Transition: How Private Platforms Impact the Digital Preservation of Public Records. *J. Assoc. Inform. Sci. Technol.* **73**:1529–1542. [4]
- Kropf, K. 2009. Aspects of Urban Form. *Urban Morphology* **13**:105–120. [8]
- . 2017. *The Handbook of Urban Morphology*. Chichester: John Wiley & Sons Ltd. [8]
- Kryvasheyev, Y., H. Chen, N. Obradovich, et al. 2016. Rapid Assessment of Disaster Damage Using Social Media Activity. *Sci. Adv.* **2**:e1500779. [4]
- Kum, H.-C., and S. Ahalt. 2013. Privacy-by-Design: Understanding Data Access Models for Secondary Data. *AMIA Jt. Summits Transl. Sci. Proc.* **2013**:126–130. [1, 12]
- Kum, H.-C., A. Krishnamurthy, A. Machanavajjhala, and S. C. Ahalt. 2014. Social Genome: Putting Big Data to Work for Population Informatics. *Computer* **47**:56–63. [5, 12]

- Kum, H.-C., A. Krishnamurthy, A. Machanavajjhala, M. K. Reiter, and S. Ahalt. 2013. Privacy Preserving Interactive Record Linkage (PIRIL). *J. Am. Med. Inform. Assoc.* **21**:212–220. [12]
- Kum, H.-C., E. Ragan, A. O. Ferdinand, and C. D. Schmit. 2022. Developing Methods for Record Linkage That Protect Patient Privacy. PCORI Final Research Report. <https://www.pcori.org/sites/default/files/Kum404-Final-Research-Report.pdf> (accessed Sept. 5, 2023). [12]
- Kum, H.-C., E. D. Ragan, G. Ilangovan, et al. 2019. Enhancing Privacy through an Interactive On-Demand Incremental Information Disclosure Interface: Applying Privacy-by-Design to Record Linkage. In: 15th Symposium on Usable Privacy and Security (SOUPS 2019), pp. 175–189. Santa Clara: USENIX Association. [12]
- Kumpula, J. M., J.-P. Onnela, J. Saramäki, K. Kaski, and J. Kertész. 2007. Emergence of Communities in Weighted Networks. *Phys. Rev. Lett.* **99**:228701. [5]
- Kushida, C. A., D. A. Nichols, R. Jadrnicek, et al. 2012. Strategies for de-Identification and Anonymization of Electronic Health Record Data for Use in Multicenter Research Studies. *Med. Care* **50(Suppl)**:82–101. [5]
- Kwan, M. P. 2012. How GIS Can Help Address the Uncertain Geographic Context Problem in Social Science Research. *Ann. GIS* **18**:245–255. [6, 7]
- Laakasuo, M., A. Rotkirch, M. van Duijn, et al. 2020. Homophily in Personality Enhances Group Success among Real-Life Friends. *Front. Psychol.* **11**:710. [4]
- Laato, S., N. Inaba, and J. Hamari. 2021. Convergence between the Real and the Augmented: Experiences and Perceptions in Location-Based Games. *Telemat. Informat.* **65**:101716. [4]
- Labbrook, D. A. 1988. Why Are Crime Rates Higher in Urban Than in Rural Areas? Evidence from Japan. *Aust. N. Z. J. Criminol.* **21**:81–103. [8]
- Lagisetty, P. A., R. Ross, A. Bohnert, M. Clay, and D. T. Maust. 2019. Buprenorphine Treatment Divide by Race/Ethnicity and Payment. *JAMA Psychiatry* **76**:979–981. [10]
- Lagoze, C. 2001. Keeping Dublin Core Simple: Cross-Domain Discovery or Resource Description? *D-Lib Mag.* **7**:Jan. 2001. [3]
- Lagoze, C., D. Krafft, T. Cornwell, et al. 2006. Metadata Aggregation and Automated Digital Libraries: A Retrospective on the NSDL Experience. In: Proc. of the 6th ACM/IEEE-Cs Joint Conference on Digital Libraries, pp. 230–239. New York: ACM. [3]
- Lakamana, S., Y.-C. Yang, M. A. Al-Garadi, and A. Sarker. 2022. Tracking the COVID-19 Outbreak in India through Twitter: Opportunities for Social Media Based Global Pandemic Surveillance. *AMIA Annu. Symp. Proc.* **May** **23**:313–322. [10]
- Laney, D. 2001. 3D Data Management: Controlling Data Volume, Velocity and Variety. *META Group Res. Note* **6**:1. [2]
- Lash, T. L. 2022. Getting over TOP. *Epidemiology* **33**:1–6. [5]
- Laugesen, K., J. F. Ludvigsson, M. Schmidt, et al. 2021. Nordic Health Registry-Based Research: A Review of Health Care Systems and Key Registries. *Clin. Epidemiol.* **13**:533–554. [11]
- Lawlor, D. A., K. Tilling, and G. Davey Smith. 2016. Triangulation in Aetiological Epidemiology. *Int. J. Epidemiol.* **45**:1866–1886. [2]
- Lawson, J., M. N. Cabili, G. Kerry, et al. 2021. The Data Use Ontology to Streamline Responsible Access to Human Biomedical Datasets. *Cell Genom.* **1**:100028. [3]
- Leck, E. 2006. The Impact of Urban Form on Travel Behavior: A Meta-Analysis. *Berkeley Plan. J.* **19**:37–58. [8]
- Lees, L., T. Slater, and E. Wyly. 2007. Gentrification. New York: Routledge. [8]

- Legeby, A. 2010. Urban Segregation and Urban Form: From Residential Segregation to Segregation in Public Space. PhD dissertation, KTH Royal Institute of Technology, Stockholm. [8]
- Legey, L., M. Ripper, and P. Varaiya. 1973. Effects of Congestion on the Shape of a City. *Journal of Economic Theory* 6:162–179. [8]
- Lehné, R. J., C. Hoselmann, H. Heggemann, H. Budde, and A. Hoppe. 2013. Geological 3D Modelling in the Densely Populated Metropolitan Area Frankfurt/Rhine-Main. *Zeitschrift der Dtsch. Gesellschaft für Geowissenschaften* 164:591–603. [3]
- Lehner, P. N. 1998. Handbook of Ethological Methods. Cambridge: Cambridge Univ. Press. [9]
- Leipzig, J., D. Nüst, C. T. Hoyt, K. Ram, and J. Greenberg. 2021. The Role of Metadata in Reproducible Computational Research. *Patterns* 2:100322. [3]
- Leong, K., and A. Sung. 2015. A Review of Spatio-Temporal Pattern Analysis Approaches on Crime Analysis. *Int. J. Crim. Sci.* 9:1–33. [6]
- Less, E. L., P. McKee, T. Toomey, et al. 2015. Matching Study Areas Using Google Street View: A New Application for an Emerging Technology. *Eval. Program Plann.* 53:72–79. [1]
- Levine, M., P. J. Taylor, and R. Best. 2011. Third Parties, Violence, and Conflict Resolution: The Role of Group Size and Collective Action in the Microregulation of Violence. *Psychol. Sci.* 22:406–412. [9]
- Levine, M. E., J. Vilena, D. Altman, and M. Nadien. 1976. Trust of the Stranger: An Urban/Small Town Comparison. *J. Psychol.* 92:113–116. [8]
- Levy, A. 1999. Urban Morphology and the Problem of the Modern Urban Fabric: Some Questions for Research. *Urban Morphology* 3:79–85. [8]
- Lewis, C. S. 1943. Out of the Silent Planet. London: Bodley Head. [2]
- Leyden, K. M., A. Goldberg, and P. Michelbach. 2011. Understanding the Pursuit of Happiness in Ten Major Cities. *Urban Affairs Rev.* 47:861–888. [8]
- Li, W., R. Dong, H. Fu, et al. 2020. Integrating Google Earth Imagery with Landsat Data to Improve 30-M Resolution Land Cover Mapping. *Remote Sens. Environ.* 237:111563. [7]
- Li, Y., and K. Zhang. 2021. Using Social Media for Telemedicine during the COVID-19 Epidemic. *Am. J. Emerg. Med.* 46:667–668. [10]
- Liebst, L. S., P. Ejbye-Ernst, M. de Bruin, J. Thomas, and M. R. Lindegaard. 2022. Face-Touching Behaviour as a Possible Correlate of Mask-Wearing: A Video Observational Study of Public Place Incidents during the COVID-19 Pandemic. *Transbound. Emerg. Dis.* 3:1319–1325. [9]
- Liebst, L. S., R. Philpot, W. Bernasco, et al. 2019. Social Relations and Presence of Others Predict Bystander Intervention: Evidence from Violent Incidents Captured on CCTV. *Aggress. Behav.* 45:598–609. [9]
- Liebst, L. S., R. Philpot, M. Levine, and M. R. Lindegaard. 2020. Cross-National CCTV Footage Shows Low Victimization Risk for Bystander Interveners in Public Conflicts. *Psychol. Violence* 11:11–18. [9]
- Lindegaard, M. R. 2022. Violence in Action: What We Know and What We See. In: Inaugural address, Faculty of Social and Behavioural Sciences. Amsterdam Institute for Social Science Research: Univ. of Amsterdam. [9]
- Lindegaard, M. R., and W. Bernasco. 2018. Lessons Learned from Crime Caught on Camera. *J. Res. Crime Delinq.* 55:155–186. [9]
- Lindegaard, M. R., M. Boeri, and R. K. Shukla. 2020. Going Native with Evil. In: Inside Ethnography: Researchers Reflect on the Challenges of Reaching Hidden Populations, pp. 27–48. Oakland: Univ. California Press. [9]

- Lindegaard, M. R., L. S. Liebst, W. Bernasco, et al. 2017. Consolation in the Aftermath of Robberies Resembles Post-Aggression Consolation in Chimpanzees. *PLOS ONE* **12**:e0177725. [9]
- Lindegaard, M. R., L. S. Liebst, R. Philpot, M. Levine, and W. Bernasco. 2021. Does Danger Level Affect Bystander Intervention in Real-Life Conflicts? Evidence from CCTV Footage. *Soc. Psychol. Person. Sci.* **13**:795–802. [9]
- Listl, S., H. Jürges, and R. G. Watt. 2016. Causal Inference from Observational Data. *Community Dent. Oral Epidemiol.* **44**:409–415. [9]
- Liu, J. C., G. Pereira, S. A. Uhl, M. A. Bravo, and M. L. Bell. 2015. A Systematic Review of the Physical Health Impacts from Non-Occupational Exposure to Wildfire Smoke. *Environ. Res.* **136**:120–132. [12]
- Liu, J. C., A. Wilson, L. J. Mickley, et al. 2017. Who among the Elderly Is Most Vulnerable to Exposure to and Health Risks of Fine Particulate Matter from Wildfire Smoke? *Am. J. Epidemiol.* **186**:730–735. [12]
- Liu, Q., X. Gu, F. Deng, et al. 2019. Ambient Particulate Air Pollution and Circulating C-Reactive Protein Level: A Systematic Review and Meta-Analysis. *Int. J. Hyg. Environ. Health* **222**:756–764. [1]
- Liu, Y., C. Kliman-Silver, and A. Mislove. 2014. The Tweets They Are a-Changin’: Evolution of Twitter Users and Behavior. *Proc. Int. AAAI Conf. Web Soc. Media* **8**:305–314. [4]
- Liu, Z., C. He, Q. Zhang, Q. Huang, and Y. Yang. 2012. Extracting the Dynamics of Urban Expansion in China Using DMSP-OLS Nighttime Light Data from 1992 to 2008. *Landsc. Urban Plann.* **106**:62–72. [7]
- Loder, A., L. Ambühl, M. Menendez, and K. W. Axhausen. 2019. Understanding Traffic Capacity of Urban Networks. *Sci. Rep.* **9**:16283. [8]
- Logan, J. R., Z. Xu, and B. J. Stults. 2014. Interpolating U.S. Decennial Census Tract Data from as Early as 1970 to 2010: A Longitudinal Tract Database. *Prof. Geogr.* **66**:412–420. [3]
- Longley, P. A., M. F. Goodchild, D. J. Maguire, and D. W. Rhind. 2015. *Geographic Information Science and Systems*. Hoboken: Wiley. [6]
- Lorenz, K. Z. 1973. The Fashionable Fallacy of Dispensing with Description. *Naturwissenschaften* **60**:1–9. [9]
- Lorkowski, P. 2021. *Monitoring Continuous Phenomena: Background, Methods and Solutions*. Boca Raton: CRC Press. [6]
- Lovasi, G. S., S. Grady, and A. Rundle. 2012. Steps Forward: Review and Recommendations for Research on Walkability, Physical Activity and Cardiovascular Health. *Public Health Rev.* **33**:484–506. [3]
- Lu, X., E. Wetter, N. Bharti, A. J. Tatem, and L. Bengtsson. 2013. Approaching the Limit of Predictability in Human Mobility. *Sci. Rep.* **3**:2923. [8]
- Lu, Y. 2018. The Association of Urban Greenness and Walking Behavior: Using Google Street View and Deep Learning Techniques to Estimate Residents’ Exposure to Urban Greenness. *Int. J. Environ. Res. Public Health* **15**:1576. [7]
- Lucyk, K., M. Lu, T. Sajobi, and H. Quan. 2015. Administrative Health Data in Canada: Lessons from History. *BMC Med. Inform. Decis. Mak.* **15**:69. [1]
- Ludvigsson, J. F., P. Svedberg, O. Olén, G. Bruze, and M. Neovius. 2019. The Longitudinal Integrated Database for Health Insurance and Labour Market Studies (LISA) and Its Use in Medical Research. *Eur. J. Epidemiol.* **34**:423–437. [11]
- Lynch, K. 1960. *The Image of the City*. Cambridge, MA: MIT Press. [8]
- Lytle, L. A., and R. L. Sokol. 2017. Measures of the Food Environment: A Systematic Review of the Field, 2007–2015. *Health Place* **44**:18–34. [7]

- Ma, B. D., S. L. Ng, T. Schwanen, et al. 2018. Pokémon Go and Physical Activity in Asia: Multilevel Study. *J. Med. Internet Res.* **20**:e217. [4]
- MacEachren, A. M., R. E. Roth, J. O'Brien, et al. 2012. Visual Semiotics & Uncertainty Visualization: An Empirical Study. *IEEE Trans. Vis. Comput. Graph.* **18**:2496–2505. [3]
- Madan, A., M. Cebrian, D. Lazer, and A. Pentland. 2010. Social Sensing for Epidemiological Behavior Change. In: *UBICOMP '10: The 2010 ACM Conference on Ubiquitous Computing*, pp. 291–300. New York: ACM. [4]
- Madsen, K. M., A. Hviid, M. Vestergaard, et al. 2002. A Population-Based Study of Measles, Mumps, and Rubella Vaccination and Autism. *N. Eng. J. Med.* **347**:1477–1482. [11]
- Maes, C., and O. de Lenne. 2022. Filters and Fillers: Belgian Adolescents' Filter Use on Social Media and the Acceptance of Cosmetic Surgery. *J. Child. Media* **May 25**:587–605. [4]
- Maestripieri, D. 2005. Gestural Communication in Three Species of Macaques (*Macaca mulatta*, *M. Nemestrina*, *M. Arctoides*): Use of Signals in Relation to Dominance and Social Context. *Gesture* **5**:57–73. [4]
- Mahajan, R., and V. Mansotra. 2021. Predicting Geolocation of Tweets: Using Combination of CNN and BiLSTM. *Data Sci. Eng.* **6**:402. [10]
- Mahmoud, H., I. M. El Araby, K. Al Hagla, and S. El Sayary. 2013. Human Social Behavior in Public Urban Spaces: Towards Higher Quality Cities. *Spaces Flows* **3**:23–35. [8]
- Makel, M. C., and J. A. Plucker. 2014. Facts Are More Important Than Novelty: Replication in the Education Sciences. *Educ. Res.* **43**:304–316. [9]
- Mandelbrot, B. B. 1982. *The Fractal Geometry of Nature*. New York: Freeman Press. [8]
- Mangalore, R., M. Knapp, and R. Jenkins. 2007. Income-Related Inequality in Mental Health in Britain: The Concentration Index Approach. *Psychol. Med.* **37**:1037–1045. [1]
- Manley, D. 2019. Scale, Aggregation, and the Modifiable Areal Unit Problem. In: *Handbook of Regional Science*, ed. M. M. Fischer and P. Nijkamp, pp. 1–15. Heidelberg: Springer. [5]
- Manning, R., M. Levine, and A. Collins. 2007. The Kitty Genovese Murder and the Social Psychology of Helping: The Parable of the 38 Witnesses. *Am. Psychol.* **62**:555. [9]
- Mansfield, T. J., D. A. Rodriguez, J. Huegy, and J. MacDonald Gibson. 2015. The Effects of Urban Form on Ambient Air Pollution and Public Health Risk: A Case Study in Raleigh, North Carolina. *Risk Anal.* **35**:901–918. [8]
- Mantelero, A. 2018. AI and Big Data: A Blueprint for a Human Rights, Social and Ethical Impact Assessment. *Comput. L. Sec. Rev.* **34**:754–772. [3]
- Marjanovic, M., S. Grubeša, and I. P. Žarko. 2017. Air and Noise Pollution Monitoring in the City of Zagreb by Using Mobile Crowdsensing. In: *25th Int. Conf. on Software, Telecommunications and Computer Networks*, pp. 1–5. Piscataway: IEEE. [7]
- Markowitz, A., T. Brinkhoff, and B. Seeger. 2005. Geographic Information Retrieval. In: *Next Generation Geospatial Information*, ed. P. Agouris, pp. 5–14, ISPRS Book Series/International Society for Photogrammetry and Remote Sensing. Leiden: Balkema. [6]
- Marmot, M. 2005. Social Determinants of Health Inequalities. *Lancet* **365**:1099–1104. [7]

- Marshall, J. D., E. Nethery, and M. Brauer. 2008. Within-Urban Variability in Ambient Air Pollution: Comparison of Estimation Methods. *Atmos. Environ.* **42**:1359–1369. [7]
- Marshall, S. 2004. *Street and Patterns: The Structure of Urban Geometry*. London: Routledge. [8]
- Martin, J. L. 2017. *Thinking through Methods: A Social Science Primer*. Chicago: Univ. Chicago Press. [9]
- Martin, K., and K. Shilton. 2016. Putting Mobile Application Privacy in Context: An Empirical Study of User Privacy Expectations for Mobile Devices. *Inform. Soc.* **32**:200–216. [12]
- Martino, N., C. Girling, and Y. Lu. 2021. Urban Form and Livability: Socioeconomic and Built Environment Indicators. *Buildings and Cities* **2**:220–243. [8]
- Masoud, B., H. Coch, and B. Beckers. 2020. The Correlation between Urban Morphology Parameters and Incident Solar Radiation Performance to Enhance Pedestrian Comfort, Case Study Jeddah, Saudi Arabia. In: *Sustainability in Energy and Buildings*, ed. J. H. Littlewood, Robert J. et al., pp. 543–554. Singapore: Springer. [8]
- Masri, S., E. Scaduto, Y. Jin, and J. Wu. 2021. Disproportionate Impacts of Wildfires among Elderly and Low-Income Communities in California from 2000–2020. *Int. J. Environ. Res. Public Health* **18**:3921. [12]
- Matharaarachchi, S., M. Domaratzki, A. Katz, and S. Muthukumarana. 2022. Discovering Long COVID Symptom Patterns: Association Rule Mining and Sentiment Analysis in Social Media Tweets. *JMIR Form. Res.* **6**:e37984. [10]
- Mattingly, S. M., J. M. Gregg, P. Audia, et al. 2019. The Tesserae Project: Large-Scale, Longitudinal, *in Situ*, Multimodal Sensing of Information Workers. In: *CHI '19: Conf. on Human Factors in Computing Systems*, pp. 1–8. New York: ACM. [4, 5]
- Mays, N., and C. Pope. 2000. Assessing Quality in Qualitative Research. *Br. Med. J.* **320**:50–52. [2]
- McDonald, C. J., S. M. Huff, J. G. Suico, et al. 2003. LOINC, a Universal Standard for Identifying Laboratory Observations: A 5-Year Update. *Clin. Chem.* **49**:624–633. [5]
- McDonald, R. I., T. Kroeger, P. Zhang, and P. Hamel. 2020. The Value of US Urban Tree Cover for Reducing Heat-Related Health Impacts and Electricity Consumption. *Ecosystems* **23**:137–150. [8]
- McGrail, K., and K. Jones. 2018. Population Data Science: The Science of Data about People. *Int. J. Popul. Data Sci.* **3**:ijpds.v3i4.918. [12]
- McIntyre, A. 2008. *Participatory Action Research*. Thousand Oaks: Sage. [5]
- McPherson, M., L. Smith-Lovin, and J. M. Cook. 2001. Birds of a Feather: Homophily in Social Networks. *Annu. Rev. Sociol.* **27**:415–444. [4]
- Mehta, V. 2014. Evaluating Public Space. *J. Urban Des.* **19**:53–88. [8]
- Meier, A., and E. Portmann, eds. 2016. *Smart City: Strategie, Governance und Projekte*. Edition HMD, vol. XXXII. Wiesbaden: Springer Vieweg. [6]
- Melchior, M., A. Ziad, E. Courtin, et al. 2018. Intergenerational Socioeconomic Mobility and Adult Depression. *Am. J. Epidemiol.* **187**:260–269. [4]
- Meloni, M. 2014. How Biology Became Social, and What It Means for Social Theory. *Sociol. Rev.* **62**:593–614. [9]
- Menon, R. 2019. Initiation of Human Parturition: Signaling from Senescent Fetal Tissues via Extracellular Vesicle Mediated Paracrine Mechanism. *Obstet. Gynecol. Sci.* **62**:199–211. [1]

- Methorst, R., J. Gerlach, D. Boenke, and J. Leven. 2007. Shared Space: Safe or Dangerous? A Contribution to Objectification of a Popular Design Philosophy. Walk21 Conference. Toronto: Walk21. [8]
- Metzl, J. M., and H. Hansen. 2018. Structural Competency and Psychiatry. *JAMA Psychiatry* **75**:115–116. [1]
- Meyer, W. B., and B. L. Turner. 1992. Human Population Growth and Global Land-Use/Cover Change. *Annu. Rev. Ecol. Syst.* **23**:39–61. [7]
- Mezzetti, M., D. Palli, and F. Dominici. 2020. Combining Individual and Aggregated Data to Investigate the Role of Socioeconomic Disparities on Cancer Burden in Italy. *Stat. Med.* **39**:26–44. [5]
- Middleton, S. E., G. Kordopatis-Zilos, S. Papadopoulos, and Y. Kompatsiaris. 2018. Location Extraction from Social Media: Geoparsing, Location Disambiguation, and Geotagging. *ACM Trans. Inf. Syst.* **36**:1–27. [7]
- Miguel, E., C. Camerer, K. Casey, et al. 2014. Promoting Transparency in Social Science Research. *Science* **343**:30–31. [12]
- Mikolov, T., K. Chen, G. Corrado, and J. Dean. 2013. Distributed Representations of Words and Phrases and Their Compositionality. *arXiv* **1310**:4546. [10]
- Miller, S. J. 2022. Metadata Resources: Selected Reference Documents, Web Sites, Books, Articles, and Other Resources. Univ. Wisconsin-Milwaukee. <https://sites.uwm.edu/ml/metadata-resources/> (accessed Nov. 1, 2022). [3]
- Mishra, J., P. Mishra, and N. K. Arora. 2021. Linkages between Environmental Issues and Zoonotic Diseases: With Reference to COVID-19 Pandemic. *Environ. Sustain.* **4**:455–467. [5]
- Mitani, J. C., J. Call, P. M. Kappeler, R. A. Palombit, and J. B. Silk. 2012. The Evolution of Primate Societies. Chicago: Univ. Chicago Press. [4]
- Mok, P. L. H., S. Antonsen, C. B. Pedersen, et al. 2018. Family Income Inequalities and Trajectories through Childhood and Self-Harm and Violence in Young Adults: A Population-Based, Nested Case-Control Study. *Lancet Public Health* **3**:e498–e507. [4]
- Molenaar, P. C. M. 2004. A Manifesto on Psychology as Idiographic Science: Bringing the Person Back into Scientific Psychology: This Time Forever. *Measurement* **2**:201–218. [2]
- Molotch, H., and D. Boden. 1993. The Compulsion of Proximity. In: *Now/Here: Time, Space and Social Theory*, ed. R. Friedland and D. Boden, pp. 257–286. Oakland: Univ. California Press. [9]
- Monsivais, D., K. Bhattacharya, A. Ghosh, R. I. M. Dunbar, and K. Kaski. 2017. Seasonal and Geographical Impact on Human Resting Periods. *Sci. Rep.* **7**:10717. [5]
- Montejo-Ráez, A., and S. M. Jiménez-Zafra. 2022. Current Approaches and Applications in Natural Language Processing. *Appl. Sci.* **12**:4859. [10]
- Montero, M. I., and R. B. Marx. 2001. Roberto Burle Marx: The Lyrical Landscape. Berkeley: Univ. California Press. [3]
- Moonesinghe, R., M. J. Khoury, and A. C. J. W. Janssens. 2007. Most Published Research Findings Are False: But a Little Replication Goes a Long Way. *PLOS Med.* **4**:e28. [11]
- Morales, A. J., X. Dong, Y. Bar-Yam, and A. Sandy Pentland. 2019. Segregation and Polarization in Urban Areas. *R. Soc. Open Sci.* **6**:190573. [8]
- Morelli, G., N. Chaudhary, A. Gottlieb, et al. 2017. Taking Culture Seriously: A Pluralistic Approach to Attachment. In: *Contextualizing Attachment: The Cultural Nature of Attachment*, ed. K. H. Bard and H. Keller, pp. 139–169, Strüngmann Forum Reports, vol. 22, J. R. Lupp, series ed. Cambridge, MA: MIT Press. [2]

- Morrison, C., J. P. Lee, P. J. Gruenewald, and C. Mair. 2016. The Reliability of Naturalistic Observations of Social, Physical and Economic Environments of Bars. *Addict. Res. Theory* **24**:330–340. [9]
- Mortensen, C. R., and R. B. Cialdini. 2010. Full-Cycle Social Psychology for Theory and Application. *Soc. Person. Psychol. Compass* **4**:53–63. [9]
- Moser, S. C. 2014. Raising the Seas, Rising to Greatness? Meeting the Challenge of Coastal Climate Change. In: *Applied Studies in Climate Adaptation*, pp. 175–180. [8]
- Moskowitz, P. E. 2017. *How to Kill a City: Gentrification, Inequality, and the Fight for the Neighborhood*. New York: Bold Type Books. [8]
- Moudon, A. V. 1997. Urban Morphology as an Emerging Interdisciplinary Field. *Urban Morphology* **1**:3–10. [8]
- Mouratidis, K., D. Ettema, and P. Naess. 2019. Urban Form, Travel Behavior, and Travel Satisfaction. *Transportation Research Part A: Policy and Practice* **129**:306–320. [8]
- Muilu, J., L. Peltonen, and J. E. Litton. 2007. The Federated Database: A Basis for Biobank-Based Post-Genome Studies, Integrating Phenome and Genome Data from 600,000 Twin Pairs in Europe. *Eur. J. Hum. Genet.* **15**:718–723. [11]
- Muller, K. U., E. Mennigen, S. Ripke, et al. 2013. Altered Reward Processing in Adolescents with Prenatal Exposure to Maternal Cigarette Smoking. *JAMA Psychiatry* **70**:847–856. [1]
- Mumford, L. 1961. *The City in History*. San Diego: Harcourt, Brace & World. [8]
- Munzel, T., M. Sorensen, O. Hahad, M. Nieuwenhuijsen, and A. Daiber. 2023. The Contribution of the Exposome to the Burden of Cardiovascular Disease. *Nat. Rev. Cardiol.* 651–669. [1]
- Murphy, D., and A. Nicol. 2010. Wash with Care: Public Service Announcement. <http://hdl.handle.net/2429/33872> (accessed Nov. 1, 2022). [3]
- Myrick, J. G., and J. F. Willoughby. 2022. A Mixed Methods Inquiry into the Role of Tom Hanks’ COVID-19 Social Media Disclosure in Shaping Willingness to Engage in Prevention Behaviors. *Health Commun.* **37**:824–832. [10]
- Naimi, A. I., D. B. Richardson, and S. R. Cole. 2013. Causal Inference in Occupational Epidemiology: Accounting for the Healthy Worker Effect by Using Structural Nested Models. *Am. J. Epidemiol.* **178**:1681–1686. [11]
- NASEM. 2019. *Reproducibility and Replicability in Science*. Washington, D.C.: National Academies Press. [5]
- Nassauer, A., and N. M. Legewie. 2018. Video Data Analysis: A Methodological Frame for a Novel Research Trend. *Sociol. Methods Res.* **50**:135–174. [9]
- . 2022. *Video Data Analysis: How to Use 21st Century Video in the Social Sciences*. London: Sage. [9]
- National Center for Health Statistics. 2021. Provisional Drug Overdose Death Counts. <https://nhstats.com/category/opioid/> (accessed Nov. 7, 2022). [10]
- National Institute of Dental and Craniofacial Research. 2018. NIDCR Strategic Plan 2014–2019. <https://www.nidcr.nih.gov/about-us/strategic-plan> (accessed Nov. 14, 2022). [11]
- Nguyen, D. Q., T. Vu, and A. T. Nguyen. 2020. BERTweet: A Pre-Trained Language Model for English Tweets. In: *Proc. of the 2020 Conference on Empirical Methods in Natural Language Processing: System Demonstrations*, pp. 9–14. Stroudsburg, PA: ACL. [10]
- Nigam, A., H. K. Dambanemuya, M. Joshi, and N. V. Chawla. 2017. Harvesting Social Signals to Inform Peace Processes Implementation and Monitoring. *Big Data* **5**:337–355. [4]

- Nissenbaum, H. 2011. A Contextual Approach to Privacy Online. *Daedalus* **140**:32–48. [12]
- Noble, K. G., S. M. Houston, N. H. Brito, et al. 2015. Family Income, Parental Education and Brain Structure in Children and Adolescents. *Nat. Neurosci.* **18**:773–778. [1]
- Norris, E., A. N. Finnerty, J. Hastings, G. Stokes, and S. Michie. 2019. A Scoping Review of Ontologies Related to Human Behaviour Change. *Nat. Hum. Behav.* **3**:164–172. [3]
- Norwegian Institute of Public Health. 2022. Norwegian Cause of Death Registry. <https://www.fhi.no/en/hn/health-registries/cause-of-death-registry/> (accessed Nov. 14, 2022). [11]
- Nosek, B. A., G. Alter, G. C. Banks, et al. 2015. Promoting an Open Research Culture. *Science* **348**:1422–1425. [5]
- Nowok, B., G. M. Raab, and C. Dibben. 2016. Synthpop: Bespoke Creation of Synthetic Data in R. *J. Stat. Softw.* **74**:1–26. [11]
- Noy, N. F. 2004. Semantic Integration: A Survey of Ontology-Based Approaches. *SIGMOD Rec.* **33**:65–70. [5]
- Ntoutsis, E., P. Fafalios, U. Gadiraju, et al. 2020. Bias in Data-Driven Artificial Intelligence Systems: An Introductory Survey. *Data Min. Knowl. Disc.* **10**:e1356. [5]
- O’Brien, E. C., A. M. Rodriguez, H. C. Kum, et al. 2019. Patient Perspectives on the Linkage of Health Data for Research: Insights from an Online Patient Community Questionnaire. *Int J Med Inform* **127**:9–17. [1]
- O’Donnell, O., E. van Doorslaer, A. Wagstaff, and M. Lindelow. 2008. Analyzing Health Equity Using Household Survey Data. Washington, D.C.: World Bank. [1]
- Ogders, C. L., A. Caspi, C. J. Bates, R. J. Sampson, and T. E. Moffitt. 2012. Systematic Social Observation of Children’s Neighborhoods Using Google Street View: A Reliable and Cost-Effective Method. *J. Child Psychol. Psychiatry* **53**:1009–1017. [1]
- Ogilvie, J. M., S. Tzoumakis, T. Allard, et al. 2021. Prevalence of Psychiatric Disorders for Indigenous Australians: A Population-Based Birth Cohort Study. *Epidemiol. Psychiatr. Sci.* **30**:e21. [1]
- Oliveira, M., C. Bastos-Filho, and R. Menezes. 2017. The Scaling of Crime Concentration in Cities. *PLOS ONE* **12**:e0183110. [8]
- Olteanu, A., C. Castillo, F. Diaz, and E. Kıcıman. 2019. Social Data: Biases, Methodological Pitfalls, and Ethical Boundaries. *Front. Big Data* **2**:fd-data.2019.00013. [4, 12]
- Onnela, J.-P., J. Saramäki, J. Hyvönen, et al. 2007. Structure and Tie Strengths in Mobile Communication Networks. *PNAS* **104**:7332–7336. [4]
- Oppermann, M. 2000. Triangulation: A Methodological Discussion. *Int. J. Tour. Res.* **2**:141–145. [2]
- Palchikov, V., K. Kaski, J. Kertész, A.-L. Barabási, and R. I. M. Dunbar. 2012. Sex Differences in Intimate Relationships. *Sci. Rep.* **2**:370. [4]
- Pampalon, R., D. Hamel, P. Gamache, et al. 2012. An Area-Based Material and Social Deprivation Index for Public Health in Quebec and Canada. *Can. J. Public Health* **103**:17–22. [1]
- Pandharipande, A. 2021. Social Sensing in IoT Applications: A Review. *IEEE Sens. J.* **21**:12523–12530. [7]
- Paquette, D., and J. M. St. George. 2023. Proximate and Ultimate Mechanisms of Human Father-Child Rough-and-Tumble Play. *Neurosci. Biobehav. Rev.* **149**:105151. [1]
- Parker, N., A. P. Wong, G. Leonard, et al. 2017. Income Inequality, Gene Expression, and Brain Maturation during Adolescence. *Sci. Rep.* **7**:7397. [1]

- Parkinson, M., T. Champion, and J. Simmler, Turok, I. 2006. State of the English Cities. A Research Study, vol. 1. London: Office of the Deputy Prime Minister. [8]
- Paus, T. 2010. Population Neuroscience: Why and How. *Hum. Brain Mapp.* **31**:891–903. [1]
- . 2013. Population Neuroscience. Heidelberg: Springer. [1]
- . 2016. Population Neuroscience. *Handb. Clin. Neurol.* **138**:17–37. [1]
- Paus, T., J. Brook, and D. Doiron. 2022. Mapping Inequalities in the Physical, Built and Social Environment in Population-Based Studies of Brain Health. *Front. Neuroimaging* **1**:884191. [1, 2, 5]
- Pearl, J., and D. Mackenzie. 2018. The Book of Why: The New Science of Cause and Effect. New York: Basic Books. [2, 3]
- Pedalino, F., and A.-L. Camerini. 2022. Instagram Use and Body Dissatisfaction: The Mediating Role of Upward Social Comparison with Peers and Influencers among Young Females. *Int. J. Environ. Res. Public Health* **19**:1543. [4]
- Peiser, R. B., and M. Hugel. 2022. Is the Pandemic Causing a Return to Urban Sprawl? *Journal of Comparative Urban Law and Policy* **5**:26–41. [8]
- Pencarrick Hertzman, C., N. Meagher, and K. M. McGrail. 2013. Privacy by Design at Population Data BC: A Case Study Describing the Technical, Administrative, and Physical Controls for Privacy-Sensitive Secondary Use of Personal Information for Research in the Public Interest. *J Am Med Inform Assoc* **20**:25–28. [1]
- Peng, G. C. Y., M. Alber, A. Buganza Tepole, et al. 2021. Multiscale Modeling Meets Machine Learning: What Can We Learn? *Arch. Comput. Meth. Eng.* **28**:1017–1037. [5]
- Peng, R. D., and S. C. Hicks. 2021. Reproducible Research: A Retrospective. *Annu. Rev. Public Health* **42**:79–93. [3]
- Pentland, A. 2014. Social Physics: How Social Networks Can Make Us Smarter. New York: Penguin Books. [8]
- Perneger, T. V. 1998. What’s Wrong with Bonferroni Adjustments. *Br. Med. J.* **316**:1236–1238. [12]
- Perrotta, G. 2020. The Concept of Altered Perception in “Body Dysmorphic Disorder”: The Subtle Border between the Abuse of Selfies in Social Networks and Cosmetic Surgery, between Socially Accepted Dysfunctionality and the Pathological Condition. *J. Neurol. Neurologic. Sci. Disord.* **6**:1–7. [4]
- Persson, M., S. Opdahl, K. Risnes, et al. 2020. Gestational Age and the Risk of Autism Spectrum Disorder in Sweden, Finland, and Norway: A Cohort Study. *PLOS Med.* **17**:e1003207. [11]
- Petty, J. 2016. The London Spikes Controversy: Homelessness, Urban Securitisation and the Question of “Hostile Architecture”. *Int. J. Crime, Justice Soc. Democr.* **5**:67. [3]
- Pew Research Center. 2021. Social Media Fact Sheet. <https://www.pewresearch.org/internet/fact-sheet/social-media/> (accessed Jan. 5, 2023). [10]
- Phan, J. H., C. F. Quo, C. Cheng, and M. D. Wang. 2012. Multiscale Integration of -Omic, Imaging, and Clinical Data in Biomedical Informatics. *IEEE Rev. Biomed. Eng.* **5**:74–87. [5]
- Philpot, R., L. S. Liebst, M. Levine, W. Bernasco, and M. R. Lindegaard. 2020. Would I Be Helped? Cross-National CCTV Footage Shows That Intervention Is the Norm in Public Conflicts. *Am. Psychol.* **75**:66–75. [9]
- Philpot, R., L. S. Liebst, M. R. Lindegaard, P. Verbeek, and M. Levine. 2022. Reconciliation in Human Adults: A Video-Assisted Naturalistic Observational Study of Post Conflict Conciliatory Behaviour in Interpersonal Aggression. *Behaviour* **159**:1225–1261. [9]

- Philpot, R., L. S. Liebst, K. K. Møller, M. R. Lindegaard, and M. Levine. 2019. Capturing Violence in the Night-Time Economy: A Review of Established and Emerging Methodologies. *Aggress. Violent Behav.* **46**:56–65. [9]
- Pollet, T. V., S. G. B. Roberts, and R. I. M. Dunbar. 2013. Going That Extra Mile: Individuals Travel Further to Maintain Face-to-Face Contact with Highly Related Kin Than with Less Related Kin. *PLOS ONE* **8**:e53929. [4]
- Psaty, B. M., C. J. O'Donnell, V. Gudnason, et al. 2009. Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium: Design of Prospective Meta-Analyses of Genome-Wide Association Studies from 5 Cohorts. *Circ. Cardiovasc. Genet.* **2**:73–80. [1]
- Public Health Informatics Institute. 2021. Toolkit for Planning an EHR-Based Surveillance Program. <https://phii.org/course/toolkit-for-planning-an-ehr-based-surveillance-program/> (accessed Oct. 7, 2022). [5]
- Publications Office of the European Union. 2003. Union Po of the E. Regulation (EC) No 1059/2003 of the European Parliament and of the Council of 26 May 2003 on the Establishment of a Common Classification of Territorial Units for Statistics (NUTS), CELEX1 <http://op.europa.eu/en/publication-detail/-/publication/dff690b3-c02d-11e9-9d01-01aa75ed71a1/language-en/format-PDF> (accessed Nov. 14, 2022). [11]
- Pukkala, E., G. Engholm, L. K. Højsgaard Schmidt, et al. 2018. Nordic Cancer Registries: An Overview of Their Procedures and Data Comparability. *Acta Oncol.* **57**:440–455. [11]
- Pullano, G., E. Valdano, N. Scarpa, S. Rubrichi, and V. Colizza. 2020. Evaluating the Effect of Demographic Factors, Socioeconomic Factors, and Risk Aversion on Mobility during the COVID-19 Epidemic in France under Lockdown: A Population-Based Study. *Lancet Digit. Health* **2**:e638–e649. [4]
- Putnam, R. D. 2000. *Bowling Alone: The Collapse and Revival of American Community*. New York: Simon & Schuster. [4]
- Quinn, P. D., M. E. Rickert, C. E. Weibull, et al. 2017. Association between Maternal Smoking During Pregnancy and Severe Mental Illness in Offspring. *JAMA Psychiatry* **74**:589–596. [11]
- Ragan, E. D., H.-C. Kum, G. Ilangovan, and H. Wang. 2018. Balancing Privacy and Information Disclosure in Interactive Record Linkage with Visual Masking. In: Proc. of the 2018 CHI Conference on Human Factors in Computing Systems, pp. 1–12. New York: ACM. [12]
- Raghunathan, T. E., P. K. Diehr, and A. D. Cheadle. 2003. Combining Aggregate and Individual Level Data to Estimate an Individual Level Correlation Coefficient. *J. Educ. Behav. Stat.* **28**:1–19. [5]
- Rainham, D., I. McDowell, D. Krewski, and M. Sawada. 2010. Conceptualizing the Healthscape: Contributions of Time Geography, Location Technologies and Spatial Ecology to Place and Health Research. *Soc. Sci. Med.* **70**:668–676. [7]
- Rajmil, L., M. Herdman, U. Ravens-Sieberer, et al. 2014. Socioeconomic Inequalities in Mental Health and Health-Related Quality of Life (HRQOL) in Children and Adolescents from 11 European Countries. *Int. J. Public Health* **59**:95–105. [1]
- Ramezani, M., G. Ilangovan, and H.-C. Kum. 2021. Evaluation of Machine Learning Algorithms in a Human-Computer Hybrid Record Linkage System. In: Proc. of the AAAI 2021 Spring Symposium on Combining Machine Learning and Knowledge Engineering (AAAI-Make 2021), ed. A. Martin et al., CEUR Workshop Proc., vol. 2846, paper 25. Palo Alto: AAAI Press. [12]
- Rantakallio, P. 1988. The Longitudinal Study of the Northern Finland Birth Cohort of 1966. *Paediatr. Perinat. Epidemiol.* **2**:59–88. [1]

- Ravat, F., and Y. Zhao. 2019. Data Lakes: Trends and Perspectives. In: Database and Expert Systems Applications, ed. S. Hartmann et al., pp. 304–313. Cham: Springer. [12]
- Read, J. M., and M. Torrado. 2009. Remote Sensing. In: International Encyclopedia of Human Geography, ed. R. Kitchin and N. Thrift, pp. 335–346. London: Elsevier. [7]
- RECAP preterm. 2022. Research on European Children and Adults Born Preterm (RECAP). <https://recap-preterm.eu/> (accessed Nov. 14, 2022). [11]
- Reid, C. E., and M. M. Maestas. 2019. Wildfire Smoke Exposure under Climate Change: Impact on Respiratory Health of Affected Communities. *Curr. Opin. Pulm. Med.* **25**:179–187. [12]
- Reilly, M. 2017. Is Facebook Targeting Ads at Sad Teens? MIT Technology Review. <https://www.technologyreview.com/2017/05/01/105987/is-facebook-targeting-ads-at-sad-teens/> (accessed Oct. 7, 2022). [5]
- Reiss Jr, A. J. 1992. The Trained Incapacities of Sociologists. In: Sociology and Its Publics, ed. T. Halliday and M. Janowitz, pp. 297–315. Chicago: Univ. Chicago Press. [9]
- Reiter, R. 1978. On Closed World Data Bases. In: Logic and Data Bases, ed. H. Gallaire and J. Minker, pp. 55–76. Boston: Springer. [2]
- Relph, E. C. 1976. Place and Placelessness. London: Pion. [4]
- Richardson, H. W. 1995. Economies and Diseconomies of Agglomeration. In: Urban Agglomeration and Economic Growth, ed. H. Giersch, pp. 123–155. Heidelberg: Springer. [8]
- Richiardi, L., C. Pizzi, and N. Pearce. 2013. Commentary: Representativeness Is Usually Not Necessary and Often Should Be Avoided. *Int. J. Epidemiol.* **42**:1018–1022. [5]
- Rigaux, P., M. Scholl, and A. Voisard. 2011. Spatial Databases: With Applications to GIS. The Morgan Kaufmann Series in Data Management Systems. San Francisco: Morgan Kaufmann. [6]
- Ritchie, S. J. 2020. Science Fictions: How Fraud, Bias, Negligence, and Hype Undermine the Search for Truth. New York: MacMillan. [5]
- Roberts, S. G. B., and R. I. M. Dunbar. 2011. The Costs of Family and Friends: An 18-Month Longitudinal Study of Relationship Maintenance and Decay. *Evol. Hum. Behav.* **32**:186–197. [4]
- Robertson, T. L., H. Kato, G. Rhoads, et al. 1977. Epidemiologic Studies of Coronary Heart Disease and Stroke in Japanese Men Living in Japan, Hawaii and California. *Am. J. Cardiol.* **39**:239–243. [4]
- Robinson, P. N., S. Köhler, S. Bauer, et al. 2008. The Human Phenotype Ontology: A Tool for Annotating and Analyzing Human Hereditary Disease. *Am. J. Hum. Genet.* **83**:610–615. [5]
- Robles-Granda, P., S. Lin, X. Wu, et al. 2021. Jointly Predicting Job Performance, Personality, Cognitive Ability, Affect, and Well-Being. *IEEE Comput. Intell. Mag.* **16**:46–61. [4]
- Rodriguez, L. A., Y. Jin, S. A. Talegawkar, et al. 2020. Differences in Diet Quality among Multiple US Racial/Ethnic Groups from the Mediators of Atherosclerosis in South Asians Living in America (MASALA) Study and the Multi-Ethnic Study of Atherosclerosis (MESA). *J. Nutr.* **150**:1509–1515. [4]
- Rosenbaum, P. R. 2020. Modern Algorithms for Matching in Observational Studies. *Annu. Rev. Stat. Appl.* **7**:143–176. [12]
- Rossi, E., and J. Balsa-Barreiro. 2020. The Future of Work in the Post-COVID-19 World. *Economic and Political Weekly* **55**:23–26. [8]

- Rothman, K. J., and S. Greenland. 2005. Causation and Causal Inference in Epidemiology. *Am. J. Public Health* **95**:144–150. [2]
- Rothstein, R. 2017. *The Color of Law: A Forgotten History of How Our Government Segregated America*. New York: Liveright Publishing. [3]
- Rubin, D. B. 1979. Using Multivariate Matched Sampling and Regression Adjustment to Control Bias in Observational Studies. *J. Am. Stat. Assoc.* **74**:318–328. [12]
- Rutter, H., N. Savona, K. Glonti, et al. 2017. The Need for a Complex Systems Model of Evidence for Public Health. *Lancet* **390**:2602–2604. [7]
- Rzotkiewicz, A., A. L. Pearson, B. V. Dougherty, A. Shortridge, and N. Wilson. 2018. Systematic Review of the Use of Google Street View in Health Research: Major Themes, Strengths, Weaknesses and Possibilities for Future Research. *Health Place* **52**:240–246. [3]
- Sabouret, P., P. P. Bocchino, and G. Biondi-Zoccai. 2020. Positive and Negative Impact of Social Media in the COVID-19 Era. *Rev. Cardiovasc. Med.* **21**:489–492. [10]
- Saha, K., A. E. Bayraktaroglu, A. T. Campbell, et al. 2019. Social Media as a Passive Sensor in Longitudinal Studies of Human Behavior and Wellbeing. In: CHI '19: CHI Conference on Human Factors in Computing Systems, pp. 1–8. New York: ACM. [4]
- Sallach, D. L. 2003. Social Theory and Agent Architectures: Prospective Issues in Rapid-Discovery Social Science. *Soc. Sci. Comput. Rev.* **21**:179–195. [9]
- Sallis, J. F., R. B. Cervero, W. Ascher, et al. 2006. An Ecological Approach to Creating Active Living Communities. *Annu. Rev. Public Health* **27**:297–322. [7]
- Samet, H. 2006. *Foundations of Multidimensional and Metric Data Structures*. The Morgan Kaufmann Series in Data Management Systems. San Francisco: Morgan Kaufmann. [6]
- Sampson, R. J., and S. W. Raudenbush. 2004. Seeing Disorder: Neighborhood Stigma and the Social Construction of “Broken Windows”. *Soc. Psychol. Q.* **67**:319–342. [9]
- SAMSHA. 2017. *Key Substance Use and Mental Health Indicators in the United States: Results from the 2016 National Survey on Drug Use and Health (HHS Publication No. SMA 17-5044, NSDUH Series H-52)*. Rockville, MD: Center for Behavioral Health Statistics and Quality, Substance Abuse and Mental Health Services Administration. [10]
- . 2020. *Key Substance Use and Mental Health Indicators in the United States: Results from the 2019 National Survey on Drug Use and Health (HHS Publication No. Pep20-07-01-001, NSDUH Series H-55)*. Rockville, MD: Center for Behavioral Health Statistics and Quality, Substance Abuse and Mental Health Services Administration. [10]
- Samuels, I. 2008. Typomorphology and Urban Design Practice I. Samuels. *Urban Morphology* **12**:58–62. [8]
- San Miguel, M., J. H. Johnson, J. Kertesz, et al. 2012. Challenges in Complex Systems Science. *Eur. Phys. J. Spec. Top.* **214**:245–271. [12]
- Sánchez, F. 2018. Racial Gerrymandering and Geographic Information Systems: Subverting the 2011 Texas District Map with Election Technologies. *Technical Commun.* **65**:354–370. [3]
- Sandin, S., H. Hjalgrim, B. Glimelius, et al. 2006. Incidence of Non-Hodgkin’s Lymphoma in Sweden, Denmark, and Finland from 1960 through 2003: An Epidemic That Was. *Cancer Epidemiol. Biomarkers Prev.* **15**:1295–1300. [11]
- Sandin, S., D. Schendel, P. Magnusson, et al. 2015. Autism Risk Associated with Parental Age and with Increasing Difference in Age between the Parents. *Mol. Psychiatry* **21**:693–700. [11]

- Sanmartin, M. X., R. M. McKenna, M. M. Ali, and J. D. Krebs. 2020. Racial Disparities in Payment Source of Opioid Use Disorder Treatment among Non-Incarcerated Justice-Involved Adults in the United States. *J. Mental Health Pol. Econ.* **23**:19–25. [10]
- Santana, P., ed. 2017. Atlas of Population Health in European Union Regions. Coimbra: Coimbra Univ. Press. [7]
- Sapena, M., M. Wurm, H. Taubenböck, D. Tuia, and L. A. Ruiz. 2021. Estimating Quality of Life Dimensions from Urban Spatial Pattern Metrics. *Comput. Environ. Urban Syst.* **85**:101549. [8]
- Saramäki, J., and K. Kaski. 2005. Modelling Development of Epidemics with Dynamic Small-World Networks. *J. Theor. Biol.* **234**:413–421. [5]
- Sariaslan, A., H. Larsson, B. D’Onofrio, N. Långström, and P. Lichtenstein. 2014. Childhood Family Income, Adolescent Violent Criminality and Substance Misuse: Quasi-Experimental Total Population Study. *Br. J. Psychiatry* **205**:286–290. [11]
- Sarkar, C., C. Webster, and J. Gallacher. 2015. UK Biobank Urban Morphometric Platform (UKBUMP): A Nationwide Resource for Evidence-Based Healthy City Planning and Public Health Interventions. *Ann. GIS* **21**:135–148. [7]
- Sarker, A., R. Ginn, A. Nikfarjam, et al. 2015. Utilizing Social Media Data for Pharmacovigilance: A Review. *J. Biomed. Inform.* **54**:202–212. [4, 10]
- Sarker, A., and G. Gonzalez-Hernandez. 2018. An Unsupervised and Customizable Misspelling Generator for Mining Noisy Health-Related Text Sources. *J. Biomed. Inform.* **88**:98–107. [10]
- Sarker, A., G. Gonzalez-Hernandez, Y. Ruan, and J. Perrone. 2019. Machine Learning and Natural Language Processing for Geolocation-Centric Monitoring and Characterization of Opioid-Related Social Media Chatter. *JAMA Netw. Open* **2**:e1914672. [4, 10]
- Sarker, A., S. Lakamana, W. Hogg-Bremer, et al. 2020. Self-Reported COVID-19 Symptoms on Twitter: An Analysis and a Research Resource. *J. Am. Med. Inform. Assoc.* **27**:1310–1315. [4, 10]
- Sarker, A., K. O’Connor, R. Ginn, et al. 2016. Social Media Mining for Toxicovigilance: Automatic Monitoring of Prescription Medication Abuse from Twitter. *Drug Saf.* **39**:231–240. [10]
- Satizabal, C. L., H. H. H. Adams, D. P. Hibar, et al. 2019. Genetic Architecture of Subcortical Brain Structures in 38,851 Individuals. *Nat. Genet.* **51**:1624–1636. [1]
- Sato, Y., and Y. Zenou. 2015. How Urbanization Affects Employment and Social Interaction. *Eur. Econ. Rev.* **75**:131–155. [8]
- Saxbe, D., G. W. Corner, M. Khaled, et al. 2018. The Weight of Fatherhood: Identifying Mechanisms to Explain Paternal Perinatal Weight Gain. *Health Psychol. Rev.* **12**:294–311. [1]
- Sayyadiharikandeh, M., O. Varol, K.-C. Yang, A. Flammini, and F. Menczer. 2020. Detection of Novel Social Bots by Ensembles of Specialized Classifiers. In: Proc. of the 29th ACM International Conference on Information & Knowledge Management (CIKM), pp. 2725–2732. New York: ACM. [4]
- Scambler, G. 2012. Health Inequalities. *Sociol. Health Illn.* **34**:130–146. [1]
- Schläpfer, M., B. Luis, S. Grauwin, et al. 2014. The Scaling of Human Interactions with City Size. *J. R. Soc. Interface* **11**:20130789. [8]
- Schmidt, A. F., and C. Finan. 2018. Linear Regression and the Normality Assumption. *J. Clin. Epidemiol.* **98**:146–151. [5]
- Schmit, C., K. V. Ajayi, A. O. Ferdinand, et al. 2020. Communicating with Patients about Software for Enhancing Privacy in Secondary Database Research Involving Record Linkage: Delphi Study. *J. Med. Internet Res.* **22**:e20783. [12]

- Schmit, C., A. O. Ferdinand, T. V. Giannouchos, and H.-C. Kum. 2024. Case Study on Communicating with Research Ethics Committees about Minimizing Risk through Software: An Application for Record Linkage in Secondary Data Analysis. *Am. Med. Inform. Assoc. Open*, in press. [12]
- Schmit, C., T. Giannouchos, M. Ramezani, et al. 2021. US Privacy Laws Go against Public Preferences and Impede Public Health and Research: Survey Study. *J. Med. Internet Res.* **23**:e25266. [1]
- Schmit, C., K. Kelly, and J. Bernstein. 2019. Cross Sector Data Sharing: Necessity, Challenge, and Hope. *J. Law. Med. Ethics* **47**:83–86. [5]
- Schmit, C., B. Larson, and H.-C. Kum. 2022. Data Privacy in the Time of Plague. *Yale J. Health Pol. Law Ethics* **21**:152–227. [5]
- Schneider, A., M. A. Friedl, and D. Potere. 2010. Mapping Global Urban Areas Using MODIS 500-M Data: New Methods and Datasets Based on “Urban Ecoregions”. *Remote Sens. Environ.* **114**:1733–1746. [7]
- Schooler, J. W. 2014. Metascience Could Rescue the “Replication Crisis”. *Nature* **515**:9. [5]
- Self, W. 2007. *Psychogeography: Disentangling the Modern Conundrum of Psyche and Place*. New York: Bloomsbury. [8]
- Seyfarth, R. M., and D. L. Cheney. 2012. The Evolutionary Origins of Friendship. *Annu. Rev. Psychol.* **63**:153–177. [4]
- Shadish, W. R., T. D. Cook, and D. T. Campbell. 2001. *Experimental and Quasi-Experimental Designs for Generalized Causal Inference*. Boston: Houghton Mifflin. [12]
- Shaw, J. A., N. Sethi, and C. K. Cassel. 2020. Social License for the Use of Big Data in the COVID-19 Era. *npj Digit. Med.* **3**:128. [5]
- Sheppard, E., H. Leitner, R. B. McMaster, and H. Tian. 1999. GIS-Based Measures of Environmental Equity: Exploring Their Sensitivity and Significance. *J. Expo. Anal. Environ. Epidemiol.* **9**:18–28. [6]
- Shin, J., S. Ma, E. Hofer, et al. 2020. Global and Regional Development of the Human Cerebral Cortex: Molecular Architecture and Occupational Aptitudes. *Cereb. Cortex* **30**:4121–4139. [1]
- Shultz, S., and R. I. M. Dunbar. 2010. Bondedness and Sociality. *Behaviour* **147**:775–803. [4]
- Simon, P. 2017. Les Descendants D’immigrés Et la Question de L’intégration. *Reg. crois. économ.* **20**:81–92. [4]
- Small, M. L., and J. M. Cook. 2021. Using Interviews to Understand Why: Challenges and Strategies in the Study of Motivated Action. *Sociol. Methods Res.* **Mar 17**:1591–1631. [9]
- Smith, G. D., and S. Ebrahim. 2003. ‘Mendelian Randomization’: Can Genetic Epidemiology Contribute to Understanding Environmental Determinants of Disease? *Int. J. Epidemiol.* **32**:1–22. [1]
- Smith, L., L. Foley, and J. Panter. 2019a. Activity Spaces in Studies of the Environment and Physical Activity: A Review and Synthesis of Implications for Causality. *Health Place* **58**:102113–102113. [7]
- Smith, L., J. Panter, and D. Ogilvie. 2019b. Characteristics of the Environment and Physical Activity in Midlife: Findings from UK Biobank. *Prev. Med.* **118**:150–158. [7]
- Smith, P. B., S. Knox, and D. K. Benjamin Jr. 2018. Coordination of the Environmental Influences on Child Health Outcomes (ECHO) Program: So the Whole Is Greater Than the Sum of Its Parts. *Curr. Opin. Pediatr.* **30**:263. [3]

- Smuts, B. B. 2017. *Sex and Friendship in Baboons*. London: Routledge. [4]
- Snijders, T. A. B. 2011. Multilevel Analysis. In: *International Encyclopedia of Statistical Science*, ed. M. Lovric, pp. 879–882. Heidelberg: Springer. [5]
- Soliman, A., K. Soltani, J. Yin, A. Padmanabhan, and S. Wang. 2017. Social Sensing of Urban Land Use Based on Analysis of Twitter Users' Mobility Patterns. *PLOS ONE* **12**:e0181657. [7]
- Somerville, R. C. J. 2012. Communicating the Science of Climate Change. *Phys. Today* **64**:48. [3]
- Sondheim, M., K. Gardels, and B. K. 1999. GIS Interoperability. In: *Geographical Information Systems*, ed. P. A. Longley et al., pp. 347–358. New York: Wiley. [6]
- Song, C., Z. Qu, N. Blumm, and A. Barabasi. 2008. Limits of Predictability in Human Mobility. *Science* **327**:1018–1021. [8]
- Soutar, C., and A. P. F. Wand. 2022. Understanding the Spectrum of Anxiety Responses to Climate Change: A Systematic Review of the Qualitative Literature. *Int. J. Environ. Res. Public Health* **19**:990. [1]
- Spadaro, A., A. Sarker, W. Hogg-Bremer, et al. 2022. Reddit Discussions about Buprenorphine Associated Precipitated Withdrawal in the Era of Fentanyl. *Clin. Toxicol.* **60**:694–701. [4]
- Spencer, M. R., A. M. Miniño, and M. Warner. 2022. Drug Overdose Deaths in the United States, 2001–2021. *NCHS data brief* **457**:1–8. [10]
- Statista. 2022a. Most Popular Social Networks Worldwide as of January 2022, Ranked by Number of Monthly Active Users. Statista. <https://www.statista.com/statistics/272014/global-social-networks-ranked-by-number-of-users/> (accessed Nov. 2, 2022). [4]
- . 2022b. Number of Global Social Network Users 2018-2027. Statista. <https://www.statista.com/statistics/278414/number-of-worldwide-social-network-users/> (accessed Nov. 2, 2022). [4]
- . 2022c. Number of Worldwide Social Network Users 2027. <https://www.statista.com/statistics/278414/number-of-worldwide-social-network-users/> (accessed Oct. 19, 2022). [10]
- Statistics Finland. 2021. Causes of Death. https://www.stat.fi/til/ksyyt/index_en.html (accessed Nov. 9, 2022). [11]
- Statistics Norway. 2022. Access to Norwegian Government Microdata. <https://www.ssb.no/en/data-til-forskning/utlan-av-data-til-forskere> (accessed Nov. 9, 2022). [11]
- Steinitz, C. 2016. Beginnings of Geodesign: A Personal Historical Perspective. *Res. Urban Ser.* **4**:9–24. [6]
- Stephens-Davidowitz, S. I. 2013. The Cost of Racial Animus on a Black Presidential Candidate: Using Google Search Data to Find What Surveys Miss. <https://ssrn.com/abstract=2238851> (accessed Nov. 7, 2022). [4]
- Strickland, J. C., J. R. Havens, and W. W. Stoops. 2019. A Nationally Representative Analysis of “Twin Epidemics”: Rising Rates of Methamphetamine Use among Persons Who Use Opioids. *Drug Alcohol Depend.* **204**:107592. [10]
- Stuart, K., and E. J. Soulsby. 2011. Reducing Global Health Inequalities. Part 1. *J. R. Soc. Med.* **104**:321–326. [1]
- Stürmer, S., M. Snyder, A. Kropp, and B. Siem. 2006. Empathy-Motivated Helping: The Moderating Role of Group Membership. *Pers. Soc. Psychol. Bull.* **32**:943–956. [9]
- Stutzer, A., and B. S. Frey. 2008. Stress That Doesn't Pay: The Commuting Paradox. *The Scandinavian Journal of Economics* **110**:339–366. [8]

- Suel, E., J. W. Polak, J. E. Bennett, and M. Ezzati. 2019. Measuring Social, Environmental and Health Inequalities Using Deep Learning and Street Imagery. *Sci. Rep.* **9**:6229. [1]
- Sueur, C., O. Petit, A. De Marco, et al. 2011. A Comparative Network Analysis of Social Style in Macaques. *Anim. Behav.* **82**:845–852. [4]
- Sukumaran, K., C. Cardenas-Iniguez, E. Burnor, et al. 2023. Ambient Fine Particulate Exposure and Subcortical Gray Matter Microarchitecture in 9- and 10-Year-Old Children across the United States. *iScience* **26**:106087. [1]
- Sundhedsdatastyrelsen. 2022. The Danish Secure Research Platform. https://sundhedsdatastyrelsen.dk/da/english/health_data_and_registers/research_services/secure_research_platform (accessed Nov. 14, 2022). [11]
- Sundström, J., M. Söderholm, S. Söderberg, et al. 2019. Risk Factors for Subarachnoid Haemorrhage: A Nationwide Cohort of 950 000 Adults. *Int. J. Epidemiol.* **48**:2018–2025. [11]
- Svensson, A. C., S. Sandin, S. Cnattingius, et al. 2009. Maternal Effects for Preterm Birth: A Genetic Epidemiologic Study of 630,000 Families. *Am. J. Epidemiol.* **170**:1365–1372. [11]
- Swedish Ethical Review Authority. 2023. Etikprövningsmyndigheten. <https://etikprovningmyndigheten.se/> (accessed Nov. 9, 2023). [11]
- Sweet, M. 2011. Does Traffic Congestion Slow the Economy? *Journal of Planning Literature* **26**:391–404. [8]
- Symington, M. M. 1990. Fission-Fusion Social Organization in *Ateles* and *Pan*. *Int. J. Primatol.* **11**:47–61. [4]
- Sytsma, V. A., V. F. Chillar, and E. L. Piza. 2021. Scripting Police Escalation of Use of Force through Conjunctive Analysis of Body-Worn Camera Footage: A Systematic Social Observational Pilot Study. *J. Crim. Justice* **74**:101776. [9]
- Taborsky, M. 2010. Sample Size in the Study of Behaviour. *Ethology* **116**:185–202. [9]
- Talen, E. 1999. Sense of Community and Neighbourhood Form: An Assessment of the Social Doctrine of New Urbanism. *Urban Stud.* **36**:1361–1379. [8]
- Talukdar, S., P. Singha, S. Mahato, et al. 2020. Land-Use Land-Cover Classification by Machine Learning Classifiers for Satellite Observations: A Review. *Remote Sens.* **12**:1135. [7]
- Thisse, J.-F. 2018. Human Capital and Agglomeration Economies in Urban Development. *The Developing Economies* **56**:117–139. [8]
- Thomas, W. I., and F. Znaniecki. 1918. *The Polish Peasant in Europe and America*. Boston: Gorham Press. [8]
- Thompson, P. M., J. L. Stein, S. E. Medland, et al. 2014. The ENIGMA Consortium: Large-Scale Collaborative Analyses of Neuroimaging and Genetic Data. *Brain Imaging Behav.* **8**:153–182. [1]
- Tiemeier, H., F. P. Velders, E. Szekeley, et al. 2012. The Generation R Study: A Review of Design, Findings to Date, and a Study of the 5-HTTLPR by Environmental Interaction from Fetal Life Onward. *J. Am. Acad. Child Adolesc. Psychiatry* **51**:1119–1135 e1117. [1]
- Tinbergen, N. 1951. *The Study of Instinct*. Oxford: Clarendon Press. [2]
- . 1952. The Curious Behavior of the Stickleback. *Sci. Am.* **187**:22–27. [2]
- . 1963. On Aims and Methods of Ethology. *Z. Tierpsychol.* **20**:410–433. [2, 9]
- . 1972. *The Animal in Its World: Explorations of an Ethologist, 1932-1972*, vol. 84. Cambridge, MA: Harvard Univ. Press. [2]
- Ting, D. S. W., L. Carin, V. Dzau, and T. Y. Wong. 2020. Digital Technology and COVID-19. *Nat. Med.* **26**:459–461. [4]

- To, P., E. Eboime, and V. I. O. Agyapong. 2021. The Impact of Wildfires on Mental Health: A Scoping Review. *Behav. Sci. (Basel)* **11**:126. [1]
- Tobler, W. R. 1970. A Computer Movie Simulating Urban Growth in the Detroit Region. *Econ. Geogr.* **46**:234. [6]
- Tolonen, H., V. Salomaa, J. Torppa, et al. 2007. The Validation of the Finnish Hospital Discharge Register and Causes of Death Register Data on Stroke Diagnoses. *Eur. J. Cardiovasc. Prev. Rehabil.* **14**:380–385. [11]
- Tomasello, M., and E. Herrmann. 2010. Ape and Human Cognition: What's the Difference? *Curr. Dir. Psychol. Sci.* **19**:3–8. [9]
- Toro, R., G. Leonard, J. V. Lerner, et al. 2008. Prenatal Exposure to Maternal Cigarette Smoking and the Adolescent Cerebral Cortex. *Neuropsychopharmacol.* **33**:1019–1027. [1]
- Travisi, C. M., R. Camagni, and P. Nijkamp. 2010. Impacts of Urban Sprawl and Commuting: A Modelling Study for Italy. *Journal of Transport Geography* **18**:382–392. [8]
- Tsao, S.-F., H. Chen, T. Tisseverasinghe, et al. 2021. What Social Media Told Us in the Time of COVID-19: A Scoping Review. *Lancet Digit. Health* **3**:e175–e194. [4, 10]
- Tsou, M.-H. 2004. Integrating Web-Based GIS and Image Processing Tools for Environmental Monitoring and Natural Resource Management. *J. Geogr. Syst.* **6**:155–174. [5]
- Tuan, Y.-F. 1977. *Space and Place: The Perspective of Experience*. Minneapolis: Univ. Minnesota Press. [4]
- Tukey, J. W. 1980. We Need Both Exploratory and Confirmatory. *Am. Stat.* **34**:23–25. [12]
- Turiel, J., D. Fernandez-Reyes, and T. Aste. 2021. Wisdom of Crowds Detects COVID-19 Severity Ahead of Officially Available Data. *Sci. Rep.* **11**:13678. [10]
- Turner, B. L., E. F. Lambin, and A. Reenberg. 2007. The Emergence of Land Change Science for Global Environmental Change and Sustainability. *PNAS* **104**:20666–20671. [7]
- Turner, J. H., and A. Maryanski. 2018. Discovering Human Nature through Cross-Species Analysis. In: *Handbook of Evolution, Biology, and Society*, ed. R. L. Hopercoft, pp. 89–112. New York: Oxford Univ. Press. [9]
- UN-Habitat. 2022. *World Cities Report 2022 . Envisaging the Future of Cities*. <https://unhabitat.org/world-cities-report-2022-envisaging-the-future-of-cities> (accessed Jan. 23, 2024). [8]
- UN. 2016. *The New Urban Agenda: UN Conference on Housing and Sustainable Urban Development (Habitat III)*. <https://www.habitat3.org/the-new-urban-agenda> (accessed Jan. 23, 2024). [8]
- Unal, M., C. Uslu, and A. Cilek. 2016. GIS-Based Accessibility Analysis for Neighbourhood Parks: The Case of Cukurova District. *J. Digit. Landsc. Architect.* **1**:46–56. [6]
- University of Wisconsin Population Health Institute. 2022. *County Health Rankings National Findings 2022*. <https://www.countyhealthrankings.org/reports/2022-county-health-rankings-national-findings-report> (accessed Jan. 23, 2024). [8]
- Urban Indian Health Institute. 2021. *Data Genocide of American Indians and Alaska Natives in COVID-19 Data*. <https://www.uihi.org/projects/data-genocide-of-american-indians-and-alaska-natives-in-covid-19-data/> (accessed Oct. 7, 2022). [5]
- Usher, C. 2022. Eco-Anxiety. *J. Am. Acad. Child Adolesc. Psychiatry* **61**:341–342. [1]
- Vable, A. M., S. F. Diehl, and M. M. Glymour. 2021. Code Review as a Simple Trick to Enhance Reproducibility, Accelerate Learning, and Improve the Quality of Your Team's Research. *Am. J. Epidemiol.* **190**:2172–2177. [3]

- Vaisman, A., and E. Zimányi. 2014. Data Warehouse Systems: Design and Implementation. *Data-Centric Systems and Applications*, M. J. Carey and S. Ceri, series ed. Heidelberg: Springer. [3]
- Valdano, E., J. T. Okano, V. Colizza, H. K. Mitonga, and S. Blower. 2021. Using Mobile Phone Data to Reveal Risk Flow Networks Underlying the HIV Epidemic in Namibia. *Nat. Commun.* **12**:2837. [4]
- van der Linden, E. L., K. A. C. Meeks, K. Klipstein-Grobusch, et al. 2022. Hypertension Determinants among Ghanaians Differ According to Location of Residence: Rodam Study. *J. Hypertens.* **40**:1010–1018. [4]
- Van Holle, V., B. Deforche, J. Van Cauwenberg, et al. 2012. Relationship between the Physical Environment and Different Domains of Physical Activity in European Adults: A Systematic Review. *BMC Public Health* **12**:807–807. [7]
- Van Horne, Y. O., C. S. Alcala, R. E. Peltier, et al. 2023. An Applied Environmental Justice Framework for Exposure Science. *J. Expo. Sci. Environ. Epidemiol.* **33**:1–11. [1]
- van Kleef, G. A., F. Wanders, E. Stamkou, and A. C. Homan. 2015. The Social Dynamics of Breaking the Rules: Antecedents and Consequences of Norm-Violating Behavior. *Curr. Opin. Psychol.* **6**:25–31. [4]
- van Leeuwen, F., J. H. Park, and I. S. Penton-Voak. 2012. Another Fundamental Social Category? Spontaneous Categorization of People Who Uphold or Violate Moral Norms. *J. Exp. Soc. Psychol.* **48**:1385–1388. [4]
- Vandenbroucke, J. P. 1990. Epidemiology in Transition: A Historical Hypothesis. *Epidemiology* **1**:164–167. [1]
- Vatsalan, D., Z. Sehili, P. Christen, and E. Rahm. 2017. Privacy-Preserving Record Linkage for Big Data: Current Approaches and Research Challenges. In: *Handbook of Big Data Technologies*, ed. A. Y. Zomaya and S. Sakr, pp. 851–895. Cham: Springer. [12]
- Venerandi, A., G. Quattrone, and L. Capra. 2018. A Scalable Method to Quantify the Relationship between Urban Form and Socio-Economic Indexes. *EPJ Data Sci.* **7**:4. [8]
- Venter, Z. S., C. Shackleton, A. Faull, et al. 2022. Is Green Space Associated with Reduced Crime? A National-Scale Study from the Global South. *Sci. Total Environ.* **825**:154005. [8]
- Verbeek, P. 2008. Peace Ethology. *Behaviour* **145**:1497–1524. [9]
- Verhoeven, J. C. 1993. An Interview with Erving Goffman, 1980. *Res. Lang. Soc. Interact.* **26**:317–348. [9]
- Villalonga-Olives, E., and I. Kawachi. 2017. The Dark Side of Social Capital: A Systematic Review of the Negative Health Effects of Social Capital. *Soc. Sci. Med.* **194**:105–127. [4]
- Villermé, L.-R. 2008. *De la Mortalité Dans Les Divers Quartiers de la Ville de Paris (1830)*. Paris: La Fabrique. [4]
- Viswanathan, M., A. Ammerman, E. Eng, et al. 2004. Community-Based Participatory Research: Assessing the Evidence. *Evid Rep Technol Assess* **99**:1–8. [5]
- Volkow, N. D. 2020. Stigma and the Toll of Addiction. *N. Eng. J. Med.* **382**:1289–1290. [10]
- Volkow, N. D., and C. Blanco. 2021. Research on Substance Use Disorders during the COVID-19 Pandemic. *J. Subst. Abuse Treat.* **129**:108385. [10]
- Wachter, S. 2022. The Theory of Artificial Immutability: Protecting Algorithmic Groups under Anti-Discrimination Law. *Tulane Law Rev.* **97**:1–49. [5]

- Waddington, C. H. 1957. *The Strategy of the Genes: A Discussion of Some Aspects of Theoretical Biology*. London: Routledge. [2]
- Wagenmakers, E.-J., R. Wetzels, D. Borsboom, H. L. J. van der Maas, and R. A. Kievit. 2012. An Agenda for Purely Confirmatory Research. *Perspect. Psychol. Sci.* **7**:632–638. [12]
- Waldron, I. 2018. *There's Something in the Water: Environmental Racism in Indigenous & Black Communities*. Winnipeg: Fernwood Publ. [1]
- Wang, D., T. Abdelzaher, and L. Kaplan. 2015. *Social Sensing: Building Reliable Systems on Unreliable Data*. Burlington, MA: Morgan Kaufmann. [7]
- Wang, F. 2020. Why Public Health Needs GIS: A Methodological Overview. *Ann. GIS* **26**:1–12. [6]
- Wang, H., and Y. Yang. 2019. Neighbourhood Walkability: A Review and Bibliometric Analysis. *Cities* **93**:43–61. [3]
- Wang, K. 2023. Planning for Livability? State-Built New Towns and Urban Traffic Externalities in China. *Asian Economic Papers* **22**:96–117. [8]
- Wang, L., B. I. Graubard, H. A. Katki, and Y. Li. 2020. Improving External Validity of Epidemiologic Cohort Analyses: A Kernel Weighting Approach. *J. R. Stat. Soc. Ser. A Stat. Soc.* **183**:1293–1311. [11]
- Wang, L., C. C. Li, Q. Ying, et al. 2012. China's Urban Expansion from 1990 to 2010 Determined with Satellite Remote Sensing. *Chinese Sci. Bull.* **57**:2802–2812 [7]
- Wang, M., and N. Debbage. 2021. Urban Morphology and Traffic Congestion: Longitudinal Evidence from US Cities. *Comput. Environ. Urban Syst.* **89**:101676. [8]
- Weenink, D., R. Dhattiwala, and D. van der Duin. 2022. Circles of Peace: A Video Analysis of Situational Group Formation and Collective Third-Party Intervention in Violent Incidents. *Br. J. Criminol.* **62**:18–36. [9]
- Wei, E. 2019. Status as a Service (StaaS). <https://www.eugenewei.com/blog/2019/2/19/status-as-a-service> (accessed Nov. 2, 2022). [4]
- Weichenthal, S., M. Hatzopoulou, and M. Brauer. 2019. A Picture Tells a Thousand... Exposures: Opportunities and Challenges of Deep Learning Image Analyses in Exposure Science and Environmental Epidemiology. *Environ. Int.* **122**:3–10. [1]
- Weinstein, L. 2021. Evictions: Reconceptualizing Housing Insecurity from the Global South. *City Commun.* **20**:13–23. [3]
- Weisskircher, M. 2020. The Strength of Far-Right AfD in Eastern Germany: The East-West Divide and the Multiple Causes Behind “Populism”. *Polit. Q.* **91**:614–622. [4]
- Wells, D. 2009. Agile Software Development: A Gentle Introduction. <http://www.agile-process.org/> (accessed Nov. 9, 2022). [12]
- Weng, H., J. Lin, R. Martin, et al. 2020. Global High-Resolution Emissions of Soil NO_x, Sea Salt Aerosols, and Biogenic Volatile Organic Compounds. *Sci. Data* **7**:1–15. [3]
- West, G. 2017. *Scale: The Universal Laws of Growth, Innovation, Sustainability, and the Pace of Life in Organisms, Cities, Economies, and Companies*. New York: Penguin Press. [5]
- Westerholt, R. 2019. Methodological Aspects of the Spatial Analysis of Geosocial Media Feeds: From Locations Towards Places. *GIS.Science* **2**:65–76. [6]
- Wheaton, W. C., and H. Shishido. 1981. Urban Concentration, Agglomeration Economies, and the Level of Economic Development. *Economic Development and Cultural Change* **30**:17–30. [8]
- WHO. 2017. *WHO Guidelines on Ethical Issues in Public Health Surveillance*. Geneva: World Health Organization. [5]

- Wild, C. P. 2005. Complementing the Genome with an “Exposome”: The Outstanding Challenge of Environmental Exposure Measurement in Molecular Epidemiology. *Cancer Epidemiol. Biomarkers Prev.* **14**:1847–1850. [1]
- Wilkinson, M. D., M. Dumontier, I. J. Aalbersberg, et al. 2016. The FAIR Guiding Principles for Scientific Data Management and Stewardship. *Sci. Data* **3**:160018. [5]
- Williams, B. 2023. Global Cities Unveiled: Understanding the Transformation of Urban Spaces in a Connected World: Amazon. [8]
- Williams, D. S., M. Máñez Costa, C. Sutherland, L. Celliers, and J. Scheffran. 2019. Vulnerability of Informal Settlements in the Context of Rapid Urbanization and Climate Change. *Environment and Urbanization* **31**:157–176. [8]
- Wilson, G., J. Bryan, K. Cranston, et al. 2017a. Good Enough Practices in Scientific Computing. *PLoS Comput. Biol.* **13**:e1005510. [3]
- Wilson, R., O. Butters, D. Avraam, et al. 2017b. Datashield: New Directions and Dimensions. <http://datascience.codata.org/articles/10.5334/dsj-2017-021/> (accessed Nov. 14, 2022). [11]
- Wolfson, M., S. E. Wallace, N. Masca, et al. 2010. Datashield: Resolving a Conflict in Contemporary Bioscience: Performing a Pooled Analysis of Individual-Level Data without Sharing the Data. *Int. J. Epidemiol.* **39**:1372–1382. [11]
- WorldBank. 2023. Urban Development. World Bank. <https://www.worldbank.org/en/topic/urbandevelopment/overview> (accessed Jan. 23, 2024). [8]
- Wulder, M. A., T. R. Loveland, D. P. Roy, et al. 2019. Current Status of Landsat Program, Science, and Applications. *Remote Sens. Environ.* **225**:127–147. [7]
- Xafis, V., G. O. Schaefer, M. K. Labude, et al. 2019. An Ethics Framework for Big Data in Health and Research. *Asian Bioeth. Rev.* **11**:227–254. [5]
- Xu, J., X. Liu, Q. Li, et al. 2022a. Global Urbanicity Is Associated with Brain and Behaviour in Young People. *Nat. Hum. Behav.* **6**:279–293. [1]
- Xu, Z., W. Wang, Q. Liu, et al. 2022b. Association between Gaseous Air Pollutants and Biomarkers of Systemic Inflammation: A Systematic Review and Meta-Analysis. *Environ. Pollut.* **292**:118336. [1]
- Yang, Y.-C., M. A. Al-Garadi, J. S. Love, et al. 2023. Can Accurate Demographic Information about People Who Use Prescription Medications Non-Medically Be Derived from Twitter? *PNAS* **120**:e2207391120. [10]
- Yang, Y.-C., M. A. Al-Garadi, J. S. Love, J. Perrone, and A. Sarker. 2021. Automatic Gender Detection in Twitter Profiles for Health-Related Cohort Studies. *JAMIA Open* **4**:oab042. [4]
- Yang, Y., N. V. Chawla, and B. Uzzi. 2019. A Network’s Gender Composition and Communication Pattern Predict Women’s Leadership Success. *PNAS* **116**:2033–2038. [4]
- Yeo, J., S. Park, and K. Jang. 2015. Effects of Urban Sprawl and Vehicle Miles Traveled on Traffic Fatalities. *Traffic Injury Prevention* **16**:397–403. [8]
- Yin, J., J. Dong, N. A. S. Hamm, et al. 2021. Integrating Remote Sensing and Geospatial Big Data for Urban Land Use Mapping: A Review. *Int. J. Appl. Earth Obs. Geoinf.* **103**:102514. [7]
- Yin, L., and S.-L. Shaw. 2015. Exploring Space–Time Paths in Physical and Social Closeness Spaces: A Space–Time GIS Approach. *Int. J. Geographic. Inf. Sci.* **29**:742–761. [6]
- Zerbo, A., R. C. Delgado, and P. A. González. 2020. Vulnerability and Everyday Health Risks of Urban Informal Settlements in Sub-Saharan Africa. *Global Health Journal* **4**:46–50. [8]

- Zhan, X., S. V. Ukkusuri, and F. Zhu. 2014. Inferring Urban Land Use Using Large-Scale Social Media Check-in Data. *Netw. Spat. Econ.* **14**:647–667. [7]
- Zhang, C., D. Song, C. Huang, A. Swami, and N. V. Chawla. 2019. Heterogeneous Graph Neural Network. In: Proc. of the ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining, pp. 793–803. New York: ACM. [7]
- Zhang, F., Z. Fan, Y. Kang, Y. Hu, and C. Ratti. 2021. “Perception Bias”: Deciphering a Mismatch between Urban Crime and Perception of Safety. *Landsc. Urban Plann.* **207**:104003. [8]
- Zhang, F., B. Zhou, L. Liu, et al. 2018. Measuring Human Perceptions of a Large-Scale Urban Region Using Machine Learning. *Landsc. Urban Plann.* **180**:148–160. [7]
- Zhang, J., W. Wang, F. Xia, Y.-R. Lin, and H. Tong. 2020. Data-Driven Computational Social Science: A Survey. *Big Data Res.* **21**:100145. [9]
- Zhang, L., and M. Menendez. 2020. Modeling and Evaluating the Impact of City Block Size on Traffic Performance. *J. Urban Plann. Dev.* **146**:04020021. [8]
- Zhou, Y., X. Y. Li, G. R. Asrar, S. J. Smith, and M. Imhoff. 2018. A Global Record of Annual Urban Dynamics (1992–2013) from Nighttime Lights. *Remote Sens. Environ.* **219**:206–220. [7]
- Zhu, Z., M. A. Wulder, D. P. Roy, et al. 2019. Benefits of the Free and Open Landsat Data Policy. *Remote Sens. Environ.* **224**:382–385. [7]
- Zimmer, M. 2018. Addressing Conceptual Gaps in Big Data Research Ethics: An Application of Contextual Integrity. *Social Media Society* **4**:10.1177/2056305118768300. [12]
- Zwirner, E., and N. Raihani. 2020. Neighbourhood Wealth, Not Urbanicity, Predicts Prosociality Towards Strangers. *Proc. R. Soc. B* **287**:1936. [8]