

Journal articles

- J93** N. Nakis, S. Lehmann, N. A. Christakis, M. Mørup. "Modeling roles and trade-offs in multiplex networks." *Nature Communications*, **17** (2026).
- J92** A. Desiderio, A. Galdeman, F. Bauerlein, S. Lehmann. "Mapping regional disparities in discounted grocery products." *npj Science of Food*, **10** (2026).
- J91** J. B. Brask, A. Koher, D. P. Croft, S. Lehmann. "Far-reaching consequences of trait preferences for animal social network structure and function." *Behavioral Ecology*, **37**:araf132 (2026).
- J90** J. Cremers, B. Köhler, B. F. Maier, S. N. Eriksen, J. Einsiedler, F. K. Christensen, S. Lehmann, D. D. Lassen et al.. "Unveiling the social fabric through a temporal, nation-scale social network and its characteristics." *Scientific Reports*, **15**:18383 (2025).
- J89** M. E. Lech, S. Lehmann, J. L. Juul. "Is it getting harder to make a hit? Evidence from 65 years of US music chart history." *EPJ Data Science*, **14** (2025).
- J88** F. Battiston, V. Capraro, F. Karimi, S. Lehmann, A. B. Migliano, O. Sadekar, N. Sánchez, M. Perc. "Higher-order interactions shape collective human behaviour." *Nature Human Behaviour*, **9**:2441 (2025).
- J87** L. Boucherie, B. F. Maier, S. Lehmann. "Decoupling geographical constraints from human mobility." *Nature Human Behaviour*, **9**:2564 (2025).
- J86** N. A. Girardini, A. Stopczynski, O. Baranov, C. Betsch, D. Brockmann, S. Lehmann, R. Böhm. "Using smartphones to study vaccination decisions in the wild." *PLOS Digital Health*, **3**:e0000550 (2024).
- J85** G. Savcisens, T. Eliassi-Rad, L. K. Hansen, L. H. Mortensen, L. Lilleholt, A. Rogers, I. Zettler, S. Lehmann. "Using sequences of life-events to predict human lives." *Nature Computational Science*, **4**:43 (2024).
- J84** Y. Fan, A. Blok, S. Lehmann. "Understanding scholar-trajectories across scientific periodicals." *Scientific Reports*, **14**:5309 (2024).
- J83** J. Mou, B. Dai, S. Tan, P. Holme, S. Lehmann, F. Liljeros, X. Lü. "The spindle approximation of network epidemiological modeling." *New Journal of Physics*, **26**:043027 (2024).
- J82** C. Liu, P. Holme, S. Lehmann, W. Yang, X. Lü. "Nonrepresentativeness of Human Mobility Data and its Impact on Modeling Dynamics of the COVID-19 Pandemic: Systematic Evaluation." *JMIR Formative Research*, **8**:e55013 (2024).
- J81** M. P. Khurana, J. Curran-Sebastian, N. Scheidwasser, C. Morgenstern, M. Rasmussen, J. Fonager, M. Stegger, M. E. Tang et al.. "High-resolution epidemiological landscape from ~290,000 SARS-CoV-2 genomes from Denmark." *Nature Communications*, **15**:7123 (2024).
- J80** A. Longa, G. Cencetti, S. Lehmann, A. Passerini, B. Lepri. "Generating fine-grained surrogate temporal networks." *Communications Physics*, **7** (2024).
- J79** T. Enggaard, A. Lohse, M. A. Pedersen, S. Lehmann. "Analyzing differences between discursive communities using dialectograms." *Scientific Reports*, **14**:22497 (2024).
- J78** D. L. Holford, A. Fasce, K. Tapper, M. Demko, S. Lewandowsky, U. Hahn, C. M. Abels, A. Al-Rawi et al.. "Science Communication as a Collective Intelligence Endeavor: A Manifesto and Examples for Implementation." *Science Communication*, **45**:539 (2023).
- J77** Y. Fan, S. Lehmann, A. Blok. "New methodologies for the digital age? How methods (re-)organize research using social media data." *Quantitative Science Studies*, **4**:976 (2023).
- J76** K. Minor, K. L. Glavind, A. J. Schwartz, C. M. Danforth, S. Lehmann, A. Bjerre-Nielsen. "Nature Exposure is Associated With Reduced Smartphone Use." *Environment and Behavior*, **55**:103 (2023).
- J75** J. L. Juul, L. Alessandretti, J. Dammeyer, I. Zettler, S. Lehmann, J. Mathiesen. "Group-specific behavior change following terror attacks." *Journal of Computational Social Science*, **6**:1 (2023).
- J74** A. Sapienza, M. Litla, S. Lehmann, L. Alessandretti. "Exposure to urban and rural contexts shapes smartphone usage behavior." *PNAS Nexus*, **2**:pgad357 (2023).
- J73** A. Koher, F. J. Jørgensen, M. B. Petersen, S. Lehmann. "Epidemic modelling of monitoring public behavior using surveys during pandemic-induced lockdowns." *Communications Medicine*, **3**:80 (2023).
- J72** N. Nakis, A. Çelikkanat, S. Lehmann, M. Mørup. "A Hierarchical Block Distance Model for Ultra Low-Dimensional Graph Representations." *IEEE Transactions on Knowledge and Data Engineering*, **36**:1399 (2023).
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- J69** C. Stich, E. Tranos, M. Musolesi, S. Lehmann. "The role of space, time and sociability in predicting social encounters." *Environment and Planning B Urban Analytics and City Science*, **49**:619 (2022).

- J68** D. Carmody, M. Mazzarello, P. Santi, T. Harris, S. Lehmann, T. Abbiasov, R. Dunbar, C. Ratti. "The effect of co-location on human communication networks." *Nature Computational Science*, **2**:494 (2022).
- J67** S. S. Jonasdottir, J. P. Bagrow, S. Lehmann. "Sleep during travel balances individual sleep needs." *Nature Human Behaviour*, **6**:691 (2022).
- J66** K. Minor, A. Bjerre-Nielsen, S. S. Jonasdottir, S. Lehmann, N. Obradovich. "Rising temperatures erode human sleep globally." *One Earth*, **5**:534 (2022).
- J65** T. Aledavood, I. Kivimäki, S. Lehmann, J. Saramäki. "Quantifying daily rhythms with non-negative matrix factorization applied to mobile phone data." *Scientific Reports*, **12**:5544 (2022).
- J64** Y. Fan, S. Lehmann, A. Blok. "Extracting the interdisciplinary specialty structures in social media data-based research: A clustering-based network approach." *Journal of Informetrics*, **16**:101310 (2022).
- J63** S. Piccolo, S. Lehmann, A. Maier. "Different networks for different purposes: A network science perspective on collaboration and communication in an engineering design project." *Computers in Industry*, **142**:103745 (2022).
- J62** M. B. Petersen, L. E. Christiansen, A. Bor, M. F. Lindholt, F. J. Jørgensen, R. Adler-Nissen, A. Roepstorff, S. Lehmann. "Communicate hope to motivate the public during the COVID-19 pandemic." *Scientific Reports*, **12**:2502 (2022).
- J61** S. Lehmann. "Chunyun versus lockdown." *National Science Review*, **9**:nwab178 (2022).
- J60** B. Mønsted, S. Lehmann. "Characterizing polarization in online vaccine discourse—A large-scale study." *PLoS ONE*, **17**:e0263746 (2022).
- J59** S. Kojaku, L. Hébert-Dufresne, E. Mones, S. Lehmann, Y.-Y. Ahn. "The effectiveness of backward contact tracing in networks." *Nature Physics*, **17**:652 (2021).
- J58** A. Bjerre-Nielsen, V. Kassarnig, D. D. Lassen, S. Lehmann. "Task-specific information outperforms surveillance-style big data in predictive analytics." *Proceedings of the National Academy of Sciences*, **118** (2021).
- J57** F. Wolf, P. Lorenz-Spreen, S. Lehmann. "Successive Cohorts of Twitter Users Show Increasing Activity and Shrinking Content Horizons." *Journal of Quantitative Description Digital Media*, **2** (2021).
- J56** D. Romanini, S. Lehmann, M. Kivelä. "Privacy and uniqueness of neighborhoods in social networks." *Scientific Reports*, **11**:20104 (2021).
- J55** S. S. Jonasdottir, K. Minor, S. Lehmann. "Gender differences in nighttime sleep patterns and variability across the adult lifespan: a global-scale wearables study." *SLEEP*, **44** (2021).
- J54** J. L. Juul, K. Græsboell, L. E. Christiansen, S. Lehmann. "Fixed-time descriptive statistics underestimate extremes of epidemic curve ensembles." *Nature Physics*, **17**:5 (2021).
- J53** E. Mones, P. Sapieżyński, S. Thordal, H. P. Olsen, S. Lehmann. "Emergence of network effects and predictability in the judicial system." *Scientific Reports*, **11**:2740 (2021).
- J52** A. Barrat, C. Cattuto, M. Kivelä, S. Lehmann, J. Saramäki. "Effect of manual and digital contact tracing on COVID-19 outbreaks: a study on empirical contact data." *Journal of The Royal Society Interface*, **18** (2021).
- J51** J. F. Donges, J. Lochner, N. H. Kitzmann, J. Heitzig, S. Lehmann, M. Wiedermann, J. Vollmer. "Dose-response functions and surrogate models for exploring social contagion in the Copenhagen Networks Study." *The European Physical Journal Special Topics*, **230**:3311 (2021).
- J50** G. Cencetti, G. Santin, A. Longa, E. Pigani, A. Barrat, C. Cattuto, S. Lehmann, M. Salathé et al.. "Digital proximity tracing on empirical contact networks for pandemic control." *Nature Communications*, **12**:1655 (2021).
- J49** A. Sapienza, S. Lehmann. "A view from data science." *Big Data & Society*, **8** (2021).
- J48** L. Alessandretti, U. Aslak, S. Lehmann. "The scales of human mobility." *Nature*, **587**:402 (2020).
- J47** B. R. Andersen, J. L. Hinrich, M. Rasmussen, S. Lehmann, C. Ringsted, E. Løkkegaard, M. G. Tolsgaard. "Social ties between team members affect patient satisfaction: a data-driven approach to handling complex network analyses." *Advances in Health Sciences Education*, **25**:581 (2020).
- J46** N. Oliver, B. Lepri, H. Sterly, R. Lambiotte, S. Deletaille, M. D. Nadai, E. Letouzé, A. A. Salah et al.. "Mobile phone data for informing public health actions across the COVID-19 pandemic life cycle." *Science Advances*, **6**:eabc0764 (2020).
- J45** A. Bjerre-Nielsen, K. Minor, P. Sapieżyński, S. Lehmann, D. D. Lassen. "Inferring transportation mode from smartphone sensors: Evaluating the potential of Wi-Fi and Bluetooth." *PLoS ONE*, **15**:e0234003 (2020).
- J44** J. L. Juul, L. Alessandretti, J. Dammeyer, I. Zettler, S. Lehmann, J. Mathiesen. "Group-specific behavior change following terror attacks." *Journal of Computational Social Science*, **6**:1 (2020).
- J43** M. Nanni, G. Andrienko, A.-A. Barabási, C. Boldrini, F. Bonchi, C. Cattuto, F. Chiaromonte, G. Comandé et al.. "Give more data, awareness and control to individual citizens, and they will help COVID-19 containment." *Ethics and Information Technology* (2020).
- J42** U. Aslak, S. F. V. Nielsen, M. Mørup, S. Lehmann. "Temporally intermittent communities in brain fMRI correlation networks." *Applied Network Science*, **4** (2019).
- J41** J. C. Leitão, S. Lehmann, H. P. Olsen. "Quantifying long-term impact of court decisions." *Applied*

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- J40** S. Piccolo, A. Maier, S. Lehmann, C. McMahon. "Iterations as the result of social and technical factors: empirical evidence from a large-scale design project." *Research in Engineering Design*, **30**:251 (2019).
- J39** P. Sapieżyński, A. Stopczynski, D. D. Lassen, S. Lehmann. "Interaction data from the Copenhagen Networks Study." *Scientific Data*, **6**:315 (2019).
- J38** **P. Lorenz-Spreen, B. Mønsted, P. Hövel, S. Lehmann. "Accelerating dynamics of collective attention." *Nature Communications*, **10**:1759 (2019).**
- J37** L. Alessandretti, S. Lehmann, A. Baronchelli. "Understanding the interplay between social and spatial behaviour." *EPJ Data Science*, **7** (2018).
- J36** A. Cuttone, S. Lehmann, M. C. González. "Understanding predictability and exploration in human mobility." *EPJ Data Science*, **7** (2018).
- J35** **V. Sekara, P. Deville, S. E. Ahnert, A.-A. Barabási, R. Sinatra, S. Lehmann. "The chaperone effect in scientific publishing." *Proceedings of the National Academy of Sciences*, **115**:12603 (2018).**
- J34** T. Aledavood, S. Lehmann, J. Saramäki. "Social network differences of chronotypes identified from mobile phone data." *EPJ Data Science*, **7** (2018).
- J33** E. Mones, A. Stopczynski, A. Pentland, N. Hupert, S. Lehmann. "Optimizing targeted vaccination across cyber-physical networks: an empirically based mathematical simulation study." *Journal of The Royal Society Interface*, **15**:20170783 (2018).
- J32** A. Stopczynski, A. Pentland, S. Lehmann. "How Physical Proximity Shapes Complex Social Networks." *Scientific Reports*, **8**:17722 (2018).
- J31** **L. Alessandretti, P. Sapieżyński, V. Sekara, S. Lehmann, A. Baronchelli. "Evidence for a conserved quantity in human mobility." *Nature Human Behaviour*, **2**:485 (2018).**
- J30** S. Piccolo, S. Lehmann, A. Maier. "Design process robustness: a bipartite network analysis reveals the central importance of people." *Design Science*, **4** (2018).
- J29** U. Aslak, M. Rosvall, S. Lehmann. "Constrained information flows in temporal networks reveal intermittent communities." *Physical review. E*, **97**:062312 (2018).
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- J27** I. Psylla, P. Sapieżyński, E. Mones, S. Lehmann. "The role of gender in social network organization." *PLoS ONE*, **12**:e0189873 (2017).
- J26** A. Cuttone, P. Bækgaard, V. Sekara, H. Jönsson, J. E. Larsen, S. Lehmann. "SensibleSleep: A Bayesian Model for Learning Sleep Patterns from Smartphone Events." *PLoS ONE*, **12**:e0169901 (2017).
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- J18** D. K. Wind, P. Sapieżyński, M. Furman, S. Lehmann. "Inferring Stop-Locations from WiFi." *PLoS ONE*, **11**:e0149105 (2016).
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Conference articles

- C11** S. Piccolo, S. Lehmann, A. Maier. "Modularity, robustness, and change propagation: A multifaceted relation." In *Proceedings of the Design Society DESIGN Conference*, 1:2335 (2020).
- C10** B. Felbo, A. Mislove, A. Søgaard, I. Rahwan, S. Lehmann. "Using millions of emoji occurrences to learn any-domain representations for detecting sentiment, emotion and sarcasm." In *Proceedings of the*, 1615 (2017).
- C9** B. Felbo, P. Sundsøy, A. Pentland, S. Lehmann, Y.-A. D. Montjoye. "Modeling the Temporal Nature of Human Behavior for Demographics Prediction." In *Lecture notes in computer science*, 140 (2017).
- C8** P. Sapieżyński, R. Gatej, A. Mislove, S. Lehmann. "Opportunities and Challenges in Crowdsourced Wardriving." In *Proceedings of the*, 267 (2015).
- C7** J. E. Larsen, A. Cuttone, S. Lehmann. "Visualizing QS Data Using Time Spirals." In *Quantified Self Europe Conference* (2014).
- C6** A. Cuttone, S. Lehmann, J. E. Larsen. "Inferring human mobility from sparse low accuracy mobile sensing data." In *Proceedings of the*, 995 (2014).
- C5** A. Stopczynski, J. E. Larsen, S. Lehmann, L. Dynowski, M. Fuentes. "Participatory bluetooth sensing: A method for acquiring spatio-temporal data about participant mobility and interactions at large scale events." In *Pervasive Computing and Communications Workshops (PERCOM Workshops)*, 242 (2013).
- C4** A. Cuttone, S. Lehmann, J. E. Larsen. "A mobile personal informatics system with interactive visualizations of mobility and social interactions." In *Proceedings of the*, 27 (2013).

- C3** A. Hannák, E. Anderson, L. F. Barrett, S. Lehmann, A. Mislove, M. Riedewald. "Tweetin' in the Rain: Exploring Societal-Scale Effects of Weather on Mood." In *Proceedings of the International AAAI Conference on Web and Social Media*, **6**:479 (2012).
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- C1** R. Jesus, M. Schwartz, S. Lehmann. "Bipartite networks of Wikipedia's articles and authors." In *Proceedings of the*, 1 (2009).

Book chapters and books

- B7** S. Lehmann, L. Alessandretti. "Universalities in human mobility." In *Handbook of Computational Social Science* (2025).
- B6** S. Lehmann. "Fundamental Structures in Temporal Communication Networks." In *Computational social sciences* (2023).
- B5** S. Lehmann. "Aggregation." In *Uncertain Archives: Critical Keywords for Big Data* (2021).
- B4** S. Lehmann, Y. Ahn. *Complex Spreading Phenomena in Social Systems*. Computational social sciences (2018).
- B3** S. Lehmann. "Networks in the Twenty-First Century." In *Encyclopedia of Social Network Analysis and Mining* (2014).
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- B1** S. Lehmann. "Structures in Complex Bipartite Networks." In *IGI Global eBooks* (2009).

Preprints

- A16** "Women's mobility networks enable more efficient travel." *arXiv preprint arXiv:2604.00943* (2026).
- A15** J. Curran-Sebastian, C. Morgenstern, J. L. Juul, M. P. Khurana, N. A. Scheidwasser, N. Banholzer, A. Katsiferis, F. T. Møller et al.. "Transmission Networks and Intervention Effects From SARS-CoV-2 Genomic and Social Network Data in Denmark." *medRxiv* (2026).
- A14** "The origins of large-scale structure in family networks." *arXiv preprint arXiv:2508.02336* (2025).
- A13** M. P. Khurana, A. Katsiferis, N. Scheidwasser, M. M. B. Sloth, J. Curran-Sebastian, C. Morgenstern, M. E. Tang, J. Fonager et al.. "Large-scale genomic surveillance reveals immunosuppression drives mutation dynamics in persistent SARS-CoV-2 infections." *medRxiv* (2025).
- A12** L. Meynent, M. B. Petersen, S. Lehmann, B. Maier. "Demography-independent behavioural dynamics influenced the spread of COVID-19 in Denmark." *arXiv:2503.11455* (2025).

- A11** L. Boucherie, Y.-Y. Ahn, S. Lehmann. "Adaptive cut reveals multiscale complexity in networks." *ArXiv.org* (2025).
- A10** L. Boucherie, B. F. Maier, S. Lehmann. "Dataset and additional figures for: decomposing geographical and universal aspects of human mobility." *arXiv:2405.08746* (2024).
- A9** J. Li, A. Karamolegkou, Y. Kementchedjhieva, M. Abdou, S. Lehmann, A. Søgaard. "Structural Similarities Between Language Models and Neural Response Measurements." *arXiv:2306.01930* (2023).
- A8** "Linking social network structure and function to social preferences." *arXiv preprint* (2023).
- A7** J. P. Bagrow, S. Lehmann. "Recovering lost and absent information in temporal networks." *arXiv:2107.10835* (2021).
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- A5** G. Cencetti, G. Santin, A. Longa, E. Pigani, A. Barrat, C. Cattuto, S. Lehmann, M. Salathé et al.. "Digital Proximity Tracing in the COVID-19 Pandemic on Empirical Contact Networks." *Research Square* (2020).
- A4** P. Sapieżyński, A. Stopczynski, D. K. Wind, J. Leskovec, S. Lehmann. "Offline Behaviors of Online Friends." *arXiv:1811.03153* (2018).
- A3** G. Chatzigeorgakidis, A. Cuttone, S. Lehmann, J. E. Larsen. "Who Wants to Self-Track Anyway? Measuring the Relation between Self-Tracking Behavior and Personality Traits." *arXiv:1608.01870* (2016).
- A2** A. Stopczynski, A. Pentland, S. Lehmann. "Physical Proximity and Spreading in Dynamic Social Networks." *arXiv:1509.06530* (2015).
- A1** A. Stopczynski, R. Pietri, A. Pentland, D. Lazer, S. Lehmann. "Privacy in Sensor-Driven Human Data Collection: A Guide for Practitioners." *arXiv:1403.5299* (2014).

Miscellaneous

- M4** *Research briefing*. "A transformer method that predicts human lives from sequences of life events." *Nature Computational Science* (2024).
- M3** *Book review*. S. Lehmann. "The Rules of Contagion: Why Things Spread – And Why They Stop. By Adam Kucharski." *The Mathematical Intelligencer* (2022).
- M2** *News & Views*. L. Alessandretti, S. Lehmann. "Trip frequency is key ingredient in new law of human travel." *Nature*, **593**:515 (2021).
- M1** *News & Views*. S. Lehmann. "Interacting contagions." *Nature Physics*, **16**:377 (2020).