

Fellow at Special Program for International Academic Freedom
State of Baden-Württemberg & University of Stuttgart

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| Education | Indiana University Ph.D. Complex Systems (Informatics), 2024 Ph.D. Sociology, 2024 M.A. Sociology, 2020 Reed College B.A. Biology, 2016 |
| Research Interests | social AI systems AI in organizations & techno-bureaucracy cultural sociology & cultural evolution complex networks & systems |
| Dissertation | “Text, culture, time: Bringing complex systems to bear on cultural sociology through computational mixed methods” |
| Affiliations | Baden-Württemberg Special Program for International Academic Freedom Post-doctoral Fellow, 2025– Based at University of Stuttgart Institute for Social Sciences University of California, Davis Post-doctoral Scholar, 2024–2025 Departments of Computer Science & Communication Mimbres School Center for humanistic exploration of complex problems Teaching Fellow, 2021–2023, Mimbres Valley, NM Bloomington Cooperative Living 70 member affordable housing collective Board President, 2019–2022, Bloomington, IN Board Member, 2017–2019 Oregon Health and Science University Research Assistant, 2016–2017 Department of Medical Informatics and Clinical Epidemiology |
| Publications | Dunivin, Z.O. , Smaldino, P.E. 2025. “Correspondence: User control of search algorithms would improve science.” <i>Nature Human Behaviour</i> . Dunivin, Z.O. 2025. “Scaling hermeneutics: A guide to qualitative coding with LLMs for reflexive content analysis.” <i>EPJ Data Science</i> . Dunivin, Z.O. , Lanigan, A. 2025. “White genocide, ethnocrisis, and far-right identity politics: Constructing white nationalist identity through Twitter discourse.” <i>Oxford Intersections: Social Media in Society and Culture</i> . |

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| Publications (continued) | Berndt, C., Mempel, F., Werner, M., Shattuck, A., Dunivin, Z.O. 2025. “The generics revolution and the new economic geography of the global pesticide industry.” <i>Journal of Agrarian Change</i> . |
| | Dunivin, Z.O. , Smaldino, P.E. 2024. “Dynamics of covert signaling: Modeling the emergence and extinction of identity signals.” <i>Psychological Review</i> . |
| | Dunivin, Z.O. , Kaminski, P. 2024. “Path dependence, stigmergy, and memetic reification in the formation of the 27 Club myth.” <i>PNAS</i> . |
| | Shattuck, A., Werner, M., Mempel, F., Dunivin, Z. , Galt, R. 2023. “Global Pesticide Use and Trade Database (GloPUT): Estimates for 147 countries show pesticide use trends in low-income countries substantially underestimated.” <i>Global Environmental Change</i> . |
| | Dunivin, Z.O. , Yan, H.Y., Ince, J., Rojas, F. 2022. “Black Lives Matter protests shift public discourse.” <i>PNAS</i> . |
| | van der Does, T., Galesic, M., Dunivin, Z.O. , Smaldino, P.E. 2022. “Strategic identity signaling in heterogeneous networks.” <i>PNAS</i> . |
| Publications in Progress | Dunivin, Z. , Zadunayski, L., Baskota, U., Siek, K., Mankoff, J. 2020. “Gender, soft skills, and patient experience in online physician reviews: A large-scale text analysis.” <i>Journal of Medical Internet Research</i> . |
| | Dunivin, Z.O. , Han, B., Bollenbocher, J. “From bias mitigation to bias negotiation: Governing identity and sociocultural reasoning in generative AI.” <i>Under review. Available on arXiv</i> . |
| | Dunivin, Z.O. , Frey, S., Sen, A., Bushouse, B., Atkisson, C. “High-information managers are more likely to rely on informal criteria in decision-making.” <i>In progress</i> . |
| | Dunivin, Z.O. , Ince, J., Rojas, F. “Vanguard cities: Protest diffusion and contagious mobilization in the Black Lives Matter movement.” <i>R&R at American Sociological Review</i> . |
| | Dunivin, Z.O. , Noori, M., Atkisson, C. Frey, S. “Self-reflection in automated qualitative coding: Improving text annotation through secondary LLM review.” <i>Under review. Available on arXiv</i> . |
| | Bollenbocher, J.,* Dunivin, Z.O.* Super-wisdom: Compassion as the guiding principle for AI ethical alignment. <i>In progress</i> . |
| Awards and Fellowships | Baden-Württemberg Special Program for International Academic Freedom <i>Deutsch: BW Sonderprogramm für Internationale Wissenschaftsfreiheit</i> Post-doctoral Fellow, 2025– |
| | Luddy Graduate Researcher of the Year 2022, Informatics Department, Indiana University |
| | Robinson Social Action Award 2021, Sociology Department, Indiana University |
| | Luddy Outstanding Teaching Award 2021, Informatics Department, Indiana University |
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*Equal contritbution.

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| Awards and Fellowships (continued) | Reassessing Threat Assessment Graduate Fellowship 2018, Tobin Project |
| | Research Trainee Fellowship in Complex Systems and a Second Discipline 2017–2019, NSF |
| | Helen Stafford Post-Baccalaureate Research Fellowship 2016, Reed College |
| | Undergraduate Research Opportunity Grant 2015, Reed College |
| | Betty C. Liu Summer Research Fellowship 2015, Reed College |
| Conference Presentations | Earth Commons 2024, Berkeley, CA “The current state of organizing collective ownership of a commons” |
| | Rethinking Kinship 2023, California College of the Arts, San Francisco, CA |
| | Indiana Rural Development Conference 2022, French Lick, IN “Housing cooperatives as a remedy to urban decay in towns and cities.” |
| | American Sociological Association Annual Meeting 2020, Online Refereed Roundtable on Methods and Culture “A semi-automated method for extracting group-specific lexicons from unlabeled text corpora.” |
| | Santa Fe Institute Graduate Workshop on Computational Social Science 25th Anniversary Conference 2019, Santa Fe, NM “Legal code is a complex system.” |
| | Conference on Complex Systems 2015, Tempe, AZ Evolution of Technology Satellite Session “Trait evolution in multi-parental technology innovation networks.” |
| | Graduate Workshop in Computational Social Science and Complexity Methods and Analysis 2018, Santa Fe Institute |
| Competitive Workshops | Reassessing Threat Assessment 2018, Tobin Project |
| Teaching | Mimbres School Instructor, Introduction to Cybernetics, 2023 |

Teaching
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Santa Fe Institute

Teaching Assistant, Humanities Analytics, 2021–22

Indiana University

Teaching Assistant, Complex Systems Seminar I, 2023

Teaching Assistant, Data Fluency, 2021–22

Teaching Assistant, Introduction to Virtual Reality, 2021

Co-instructor, Science as Process (Introduction to Informatics I), 2020–21

Teaching Assistant, Artificial Life in Virtual Reality, 2020

Co-instructor, Information Infrastructure II, 2019

Reed College

Teaching Assistant, Computer Science Fundamentals II, 2016

Teaching Assistant, Genes, Genetics & Genomes, 2016

Teaching Assistant, Computational Biology, 2015

Teaching Assistant, Computer Science Fundamentals I, 2015

Service

Collective Futures Land Project

2023–2024, San Francisco, CA

Founding member of an affordable housing non-profit specializing in prison recovery. Transitioning from rentership to ownership.

DeepMay Tech Autonomy Boot Camp

2022, Paoli, IN

Indiana University co-sponsor for 10-day living-working camp for adults to learn information-technology skills toward serving community autonomy projects.

Prison Recovery Mentorship

2020–2022, Bloomington, IN

Provided support to two men recently released from prison. Support included housing, food, social services applications, transportation, crisis counseling, computer skills, and resocializing attitudes toward women.

Bloomington Cooperative Living

70 member low-income housing collective

2019–2022, Bloomington, IN

Board President

2017–2020, Bloomington, IN

Membership Coordinator

2017–2019, Bloomington, IN

Board Member

Graduate Informatics Student Association

2018, Indiana University

Institutional Voice Chair

Butter Bog Housing Collective

2015–2017, Portland, OR

Founding Member

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| Service Accomplishments | Cooperative House Financing 2020, Bloomington, IN Led a team of 3 volunteers to secure a \$950,000 financing package for a new 18-bedroom cooperative house. Completed in 2022. |
| | Co-op Zoning Laws 2019, Bloomington, IN Worked with City Council and Planning to expand the definition of Single-Family Housing to include cooperatively owned houses. |
| Expert Witness Testimony | Statistical Analyst <i>Racial Bias in Policing</i> Jan. 2021, Monroe County Circuit Court, IN |
| | Expert “Twitness” <i>Twitter, Information Ethics, Internet Surveillance</i> Oct. 2018, Monroe County Circuit Court, IN |
| Reviewer For | Psychology — Perspectives on Psychological Science; Personality and Social Psychology Bulletin; Communications Psychology; Qualitative Research in Psychology |
| | Sociology — American Sociological Review; Social Problems; Journal of Mathematical Sociology; Mobilization |
| | Health — American Journal of Public Health; Qualitative Health Research; Journal of the American Medical Informatics Association |
| | Other Social Science — PNAS Nexus; Global Networks; Regulation and Governance; Social Science Computer Review |
| Press Coverage | The 27 Club myth isn’t true, but it is real Scientific American , ABC Radio [*] , LA Times ^{*†} , The Telegraph [†] , The Times [†] , El Pais [†] , Der Standard [†] , Público [†] , Daily Mail , Daily Star , National Geographic (Hungary) , Superinteressante |
| | Black Lives Matter protests shift public discourse Reddit (front page) , NYT , Washington Post , Forbes , Counter Punch , Truthout , LSE USAPP , KNKX (NPR) |
| | Bloomington Cooperative Living Indiana Public Media , City of Bloomington , Limestone Post |

^{*}Preferred coverage.

[†]Primary coverage by newspaper of record.