

Cody Moser

PHD CANDIDATE
COGNITIVE AND INFORMATION SCIENCES
UNIVERSITY OF CALIFORNIA, MERCED

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University of California, Merced

PHD COGNITIVE AND INFORMATION SCIENCES

- Advisor: Dr. Paul Smaldino
- Committee: Tyler Marghetis, Alex Petersen, Justin Yeakel
- Dissertation: "Dynamics and Structure in Epistemic Ecologies"

MS COGNITIVE AND INFORMATION SCIENCES

- Thesis: "Design Principles of Generative Adaptive Systems"

University of California, Los Angeles

GRADUATE FELLOW, INSTITUTE FOR PURE AND APPLIED MATHEMATICS (IPAM)

- Program: Mathematics of Intelligence

Harvard University

VISITING FELLOW, GRADUATE SCHOOL OF ARTS AND SCIENCES

- Principal Investigator: Dr. Samuel Mehr
- Affiliated Department: Psychology

Texas A&M University

MA ANTHROPOLOGY

- Advisor: Dr. Jeffrey Winking
- Thesis: "Aggressive Mimicry as a Human Hunting Strategy"

Florida State University

BS ANTHROPOLOGY, MINORS IN BIOLOGY AND STATISTICS

- Thesis advisors: Drs. Elizabeth Peters, Dean Falk, Emily Lemmon
- Honor's Thesis: "Anti-Predator Behaviors in Nocturnal Strepsirrhines"

Professional Experience

- 2022-2024 **Oskar Morgenstern Fellow**, Mercatus Center, George Mason University
2020 **Transportation Policy Intern**, Reason Foundation
2020 **Poverty and Inequality in California Research Project Intern**, Cato Institute
2015-2016 **Lab Assistant**, Center for Anchored Phylogenomics

Publications

*Denotes co-principal authorship; ¹Awarded "Feature paper" by journal

REFEREED PUBLICATIONS

- Smaldino, P. E., Russell, A., Zefferman, M., Donath, J., Foster, J., Guilbeault, D., ... **Moser, C.**, ... Patt, D. (In press). Information Architectures: A Framework for Understanding Socio-Technical Systems. *npj Complexity*.
- Smaldino, P. E., **Moser, C.**, Pérez Velilla, A., Werling, M. (2024). Maintaining transient diversity is a general principle for improving collective problem solving. *Perspectives on Psychological Science*.
- Moser, C.**, & Smaldino, P. E. (2023). Innovation-Facilitating Networks Create Inequality. *Proceedings of the Royal Society B: Biological Sciences*, 290: 20232281.
- Falandays, J. B., Kaaronen, R. O., **Moser, C.**, Rorot, W., Tan, J., Varma, V., Williams, T., Youngblood, M. (2023). All Intelligence is Collective Intelligence. *Journal of Multiscale Neuroscience*, 2(1), 169-191.

- Moser, C.**, Buckner, W., Sarian, M., Winking, J. (2023). Aggressive Mimicry and the Evolution of the Human Cognitive Niche. *Human Nature*.
- *Hilton, C. B., ***Moser, C.**, Bertolo, M., Lee-Rubin, H., Amir, D., Bainbridge, C. M., ... & Mehr, S. A. (2022). Acoustic regularities in infant-directed speech and song across cultures. *Nature Human Behaviour*, 1-12.
- ¹**Moser, C.**, & Smaldino, P. E. (2022). Organizational Development as Generative Entrenchment. *Entropy*, 24(7), 879.
- Holbrook, C., Yoon, L., Fessler, D. M. T., **Moser, C.**, Delgado, J. D., Kim, H. (2022). Moral Parochialism and Causal Appraisal of Transgressive Harm in Seoul and Los Angeles. *Scientific Reports*, 12, 14227.

REFEREED CONFERENCE PROCEEDINGS

- *Milzman, J. & ***Moser, C.** (2023). Decentralized core-periphery structure in social networks accelerates cultural innovation in an agent-based model. In Proc. of the 22nd International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2023), London, United Kingdom, May 29 – June 2, 2023, IFAAMAS.

COMMENTARIES & WHITE PAPERS

- Abbas, M., Alharthi, D., Balbas, J., Beckelhymer, D., Beylkin, G., Bruna, P., ... **Moser, C.**, ... Zhu, Y. (2025). White Paper: “Mathematics of Intelligences.” Institute for Pure and Applied Mathematics. <https://www.ipam.ucla.edu/reports>
- Moser, C.** (2025). Myth as Model: Group-Level Interpretive Frameworks. [commentary on Sijilmassi et al.]. *Behavioral and Brain Sciences*, 47.
- Peréz Velilla, A., **Moser, C.**, Smaldino, P. E. (2022). Hidden Clusters Beyond Ethnic Boundaries. [commentary on Uchiyama et al.] *Behavioral and Brain Sciences*, 45.
- Moser, C.**, Ackerman, J., Dayer, A., Proksch, S., Smaldino, P. E. (2021). Why don’t cockatoos have war songs? [commentary on Mehr et al. and Savage et al.]. *Behavioral and Brain Sciences*, 44.

ARTICLES SUBMITTED

- Moser, C.**, Holbrook, C., Ellks, R., & Jones, A. (2024). Possessing Potential Weapons (Still) Heightens Anger Perception: Replicating and Extending a Test of Error Management Theory. <https://doi.org/10.31234/osf.io/jsurq>

Presentations

CONTRIBUTED TALKS

- Moser, Cody.** 2024. Gradient Descent with Modification: Wright’s Adaptive Landscape and the Candidate Solutions Approach to Intelligence. IPAM Junior Seminar Series.
- Moser, Cody.** 2024. Innovation-Facilitating Networks Create Inequality. Markets & Society 2024 Conference.
- Moser, Cody.** 2024. Identifying leverage points in opinion dynamic networks with external influences. Institute for Humane Studies 2024 Graduate Conference.
- Moser, Cody.** 2024. Innovation-Facilitating Networks Create Inequality. Cultural Evolution Society 2024 Conference.
- Moser, Cody.** 2023. Innovation-Facilitating Networks Create Inequality. Templeton World Charity Foundation Diverse Intelligences Summit
- Milzman, Jesse, **Moser, C.** 2023. Decentralized core-periphery structure in social networks accelerates cultural innovation in an agent-based model. International Conference on Autonomous Agents and Multiagent Systems.
- Moser, Cody.** 2022. The Network Science of Cumulative Innovations. Institute for Humane Studies 2022 Graduate Conference.
- Moser, Cody.** 2021. Structural and Mechanistic Analogies in Evolutionary Thinking. California Workshop on Evolutionary Social Science

CONTRIBUTED POSTERS

- Moser, Cody**, Johnson, K. 2024. Don't Say No: A Game Theoretic Model of Rejection with Reputational Costs.
PPE Society Eighth Annual Meeting.
- Clemotte, Clifford, **Moser, C.** 2024. The Ecological Origins of Property: An Extension of Wilson's Evolutionary Account of Property-Rights Cognition.
PPE Society Eighth Annual Meeting.
- Moser, Cody**, Milzman, J. 2023. Decentralized core-periphery structure in social networks accelerates cultural innovation in an agent-based model.
Santa Fe Institute Collective Intelligence Symposium.
- Milzman, Jesse, **Moser, C.** 2023. Decentralized core-periphery structure in social networks accelerates cultural innovation in an agent-based model.
22nd International Conference on Autonomous Agents and Multiagent Systems.
- Moser, Cody**. 2022. The Network Science of Cumulative Innovations.
8th International Conference on Computational Social Science.
- Moser, Cody**. 2019. Aggressive Mimicry as a Human Hunting Strategy.
Human Behavior and Evolution Society 31st Annual Conference.
- Moser, Cody**, et al. 2019. Acoustical Regularities in Infant-Directed Vocalizations Worldwide.
Acoustical Society of America 177th Meeting.
- Gursky, Sharon, **Moser, C.** 2018. Echolocation in a nocturnal primate?
American Association of Physical Anthropologists 87th Annual Meeting.
- Moser, C.** 2016. Anti-predator behaviors in four species of nocturnal strepsirrhine.
American Association of Physical Anthropologists 85th Annual Meeting.
- Moser, C.** 2015. Spatial height preferences in wild *Cebus capucinus*.
American Association of Physical Anthropologists 84th Annual Meeting.

INVITED TALKS

- Spring 2025. Dynamics and Structure in Epistemic Ecologies.
Department of Philosophy and History of Science, Charles University, Prague.
- Fall 2024. *Bringing the Individual into Collective Intelligence*.
Center for Behavior, Evolution, and Culture, UCLA.
- Summer 2024. *Philosophical Energy and the Sociology of Philosophies*.
Institute for Humane Studies Fellows Summer Workshop.
- Fall 2023. *Organizational Development as Generative Entrenchment*.
Prosocial World Case Studies in Cultural Evolution Working Group.
- Spring 2023. *Innovation-Facilitating Networks Create Inequality*.
Santa Fe Institute Information Architectures as Sociotechnical Competitions Workshop.
- Spring 2023. *Innovation-Facilitating Networks Create Inequality*.
Future Gallo School of Management External Advisory Council Meeting, UC Merced.
- Fall 2022. *Little Fish in Small Ponds Panel: Early Career Researchers in Big Science*.
2022 Big Team Science Conference.
- Fall 2022. *Acoustic Regularities in Infant-directed Speech and Song Across Cultures*.
UC Merced Developmental Psychology Colloquium.
- Spring 2022. *Acoustic Regularities in Infant-directed Speech and Song Across Cultures*.
University of Cambridge Centre for Music and Science Colloquium.
- Spring 2021. *Theory of Mind Towards Non-Human Animals*.
Yale Department of Psychology Computational Social Cognition Group.
- Fall 2016. *Anti-Predator Behaviors in Four Species of Nocturnal Strepsirrhine*.
Duke Lemur Center 50th Anniversary Symposium.

Non-Academic Articles

- 2023 **Works in Progress Magazine**, On the origins of empathy for other species
- 2022 **Hungarian Conservative Print Edition Special Issue on Conservatism and Innovation**, The Ties That Bind Us
Quillette Magazine, Saving Twitter – A Roundtable w/ Bo Winegard, Jim Rutt, Cody Moser
- 2020 **Areo Magazine**, Freeman Dyson, *In Memoriam*
Reason.org, Driver's License Suspensions and Fees Unfairly Impact the Poor And Are in Need of Reform
- 2019 **Skeptic Magazine 24.3**, The Enigma of Stephen Jay Gould
Areo Magazine, There's Little Reason to Worry About the SAT's New Adversity Score
Areo Magazine, "Is Science Racist?" Book Review
- 2018 **Areo Magazine**, The Selfish Nature of Human Cooperation
Quillette Magazine, The Dangers of Dugin's Particularism
Areo Magazine, Alice Dreger's Middle Finger: Sex, Gender and Unhelpful Hair-Splitting

Fellowships & Awards

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| 2024 | Fletcher Jones Fellowship ,
UC Merced, Fletcher Jones Foundation | \$ 50,000 |
| | Junior Fellowship ,
Institute for Humane Studies | \$ 6,000 |
| 2023 | Oskar Morgenstern Fellowship ,
The Mercatus Center | \$ 7,000 |
| | Winning Research Proposal ,
SFI Complexity-GAINs Workshop on Representation and Intelligence | |
| | Cognitive & Information Sciences Graduate Student Spotlight Award ,
UC Merced Department of Cognitive and Information Sciences | |
| | DISI Alumni Award ,
Diverse Intelligences Summer Institute | \$ 750 |
| 2022 | Oskar Morgenstern Fellowship ,
The Mercatus Center | \$ 7,000 |
| 2021 | Humane Studies Fellowship ,
Institute for Humane Studies | \$3,000 |
| 2016 | International Awareness Fellowship ,
Texas A&M MSC LT Jordan Institute | \$2,000 |
| 2015 | Florida State University Homepage Featured Student ,
Florida State University | |

Grants

2024	Institute for Humane Studies Faculty Mentorship Grant, <i>with Dr. Ryan Muldoon, University at Buffalo</i>	\$ 8,000
	Institute for Humane Studies Event Support Grant, <i>Event Funding: Understanding the Emergence of Group Knowledge in Social Systems: Complexity, Synergy, and Innovation in Social Groups</i>	\$ 3,500
	Institute for Humane Studies Travel Grant, <i>for PPE Society 8th Annual Meeting</i>	\$ 1,300
2023	Institute for Humane Studies Publication Accelerator Grant, <i>for Identifying Leverage Points in Opinion Dynamic Networks with External Influence</i>	\$ 5,000
	UC Merced Office of the Dean of Social Sciences, Humanities and Arts Grant, <i>Event Funding: CWESS 2023</i>	\$ 5,000
	UC Merced Center for Analytic Political Engagement (CAPE), <i>for Identifying Leverage Points in Opinion Dynamic Networks with External Influence</i>	\$ 700
	Mercatus Center Travel Award, <i>for SFI Collective Intelligence Symposium</i>	\$ 200
	AAMAS Student Scholarship, <i>for AAMAS 2023</i>	\$ 460
	Institute for Humane Studies Hayek Travel Award, <i>for AAMAS 2023</i>	\$ 750
2022	UC Merced Graduate Student Association Travel Award, <i>for IC2S2 2022</i>	\$ 400
	Institute for Humane Studies Hayek Travel Award, <i>for CSH Vienna International Spring School on Social Complexity</i>	\$ 800
	UC Merced Graduate Fellowship Incentive Award, <i>for External Grant Applications</i>	\$ 200
2016	TAMU Department of Anthropology Pilot Research Funding Award , <i>for Ultrasonic Communication in Bornean Tarsiers</i>	\$ 2,400
	Murray & Celeste Fasken Chair in Liberal Arts Research Award, <i>for Ultrasonic Communication in Bornean Tarsiers</i>	\$ 500
2015	ACC Undergraduate Collaborative Summer Research Award, <i>for Anti-Predator Behaviors in Nocturnal Strepsirrhines</i>	\$ 5,000

Teaching Experience

Spring '24	Modeling Social Behavior, Teaching Assistant
Fall '23	Introduction to Cognitive Science, Teaching Assistant
Spring '23	Senior Thesis Writing Course, Teaching Assistant
Fall '22	Language and Linguistics, Teaching Assistant
Spring '21	Philosophy of Cognitive Science, Teaching Assistant
Fall '20	Introduction to Cognitive Science, Teaching Assistant
Spring '18	Introduction to Anthropology, Head Teaching Assistant
Fall '17	Introduction to Anthropology, Teaching Assistant
Spring '17	Peoples and Cultures of the World, Teaching Assistant
Fall '16	Introduction to Anthropology, Teaching Assistant

Outreach & Professional Development

WORKSHOPS & TRAINING

- 2025 **Complexity Science Hub**, Winter School on Complex Systems in Our Changing World
- 2024 ***Institute for Humane Studies**, Emergence of Group Knowledge in Social Systems: Complexity, Synergy, and Innovation in Social Groups
 - *Santa Fe Institute**, Assessing Representation in Minds and Artificial Systems Workshop
 - Berggruen Institute**, Computational Consciousness Workshop
 - Chapman University**, Philosophy, Politics and Economics Graduate Summer Workshop
 - Acton Institute**, The Person and Technological Society: A Free and Virtuous Society Workshop
- 2023 **Diverse Intelligences Summer Institute (DISI)**, University of St. Andrews
 - Santa Fe Institute**, Complexity-GAINS International Summer School on Intelligence and Representation
 - Santa Fe Institute**, Collective Intelligence Short Course
 - Santa Fe Institute**, Information Architectures as Sociotechnical Competitions Workshop
 - Institute for Humane Studies**, A Responsible Singularity: Tech Ethics and Unpredictable Change Workshop
- 2022 **Santa Fe Institute**, Complexity-GAINS International Summer School on Disintegration of Societies
 - Complexity Science Hub**, International Spring School on Social Complexity
 - Institute for Progress**, Economics of Ideas, Science, and Innovation PhD Course
- 2021 **National Science Foundation**, Societal Shock Resilience Workshop
- 2020 **Santa Fe Institute**, Evolution of Collective Computational Abilities of (Pre)Historical Societies Workshop

**Organizer role*

SERVICE POSITIONS

- 2024 **Founder & Primary Coordinator**, UCM CogSci Mentorship for Undergraduates (MUG) Program
 - Mentor**, UCM CogSci Mentorship for Undergraduates (MUG) Program
- 2021-24 **Graduate Student Mentor**, Cognitive Science Student Association at UC Merced
 - Campus Representative**, California Workshop on Evolution Social Sciences
 - Twitter Administrator**, UC Merced Department of Cognitive and Information Sciences
- 2022-23 **Senior Organizer**, California Workshop on Evolution Social Sciences
- 2021-22 **Junior Organizer**, California Workshop on Evolution Social Sciences
- 2016-18 **Coordinator**, Texas A&M Department of Anthropology Graduate-Undergraduate Mentorship Program
 - Mentor**, Texas A&M Department of Anthropology Graduate-Undergraduate Mentorship Program
 - Mentor**, Texas A&M GLBT+ Mentorship Program

SELECTED MEDIA COVERAGE

The Jim Rutt Show: Innovation-Facilitating Networks Create Inequality (12/19/2023)
The Guardian: Gaga for goo goo: Wellington named the global capital of baby talk (07/22/2022)
New York Times: Front cover, 'Parentese' Is Truly a Lingua Franca, Global Study Finds (07/25/2022)
The Today Show: Baby Talk is Universal (07/25/2022)
NPR, All Things Considered: The science is in: Everyone recognizes and uses baby talk with infants (07/31/2022)
NPR, Goats and Soda: Scholars confirm what it'sy bitsy babies around the world already know (08/14/2022)
Every Little Thing Podcast: Why do we baby talk? (09/26/2022)

PEER REVIEW

Journals:

Behavioral Ecology
Child Development
Cognition and Emotion

Cognitive Science
Developmental Science
Evolution and Human Behavior (4)
Evolutionary Human Sciences (2)
Humanities and Social Sciences Communications
Nature Human Behaviour
npj Complexity
Physica A
PLOS One
PNAS Nexus
Philosophy of Science
Proceedings of the Royal Society B: Biological Sciences
Royal Society Open Science
Topics in Cognitive Science

Conferences:

CogSci 2024, 2025

Funders:

ManyLanguages Consortium
UK Research and Innovation Economic and Social Research Council (UKRI-ERSC)

PROFESSIONAL MEMBERSHIPS

The Polanyi Society
Cultural Evolution Society
Long Now Foundation Member #11096
Human Behavior and Evolution Society

PROFICIENCIES, ETC.

Citizenship: United States, United Kingdom
Languages: English (native), German (intermediate)
Programming: Python, R, NetLogo, MATLAB
Skills: Agent-based models, networks, information theory, bioacoustics, web scraping, data visualization