

MIRIAM E. SCHWYCK

Previously Miriam E. Weaverdyck

mweaverdyck.github.io | mweaverdyck@ucla.edu

ACADEMIC APPOINTMENTS

2023-present Postdoctoral Scholar, Columbia University, NY
Advisor: Dr. Meghan Meyer

EDUCATION

2023 Ph.D., Psychology, University of California, Los Angeles, CA
Advisor: Dr. Carolyn Parkinson

2018 M.A., Psychology, University of California, Los Angeles, CA
Advisors: Drs. Carolyn Parkinson, Matthew Lieberman

2013 B.A., Psychology, Mathematical Sciences, Bethel College, KS
Advisors: Drs. Dwight Krehbiel, Lisa Thimm
Honors: *Summa Cum Laude*

FELLOWSHIPS, HONORS, AND AWARDS

2023 Shelley E. Taylor Dissertation Award, *UCLA*

2022 Dissertation Year Fellowship, *UCLA*

2022 Graduate Travel Award, *Society for Personality and Social Psychology*

2021 Poster Award, *Social & Affective Neuroscience*

2020 Graduate Research Fellowship, *NSF*

2019 Graduate Research Mentorship Fellowship, *UCLA*

2019 Fellow, *Kavli Summer Institute in Cognitive Neuroscience*

2019 Fellow, *NIA Summer School in Social Neuroscience & Neuroeconomics*

2019 Harold H. Kelley Award: Best Basic Research Paper, *UCLA Social Psychology*

2019 Travel Grant, *International Convention of Psychological Science*

2019 Poster Award, *Social & Affective Neuroscience*

2018 Fellow, *São Paulo School of Advanced Sciences on Social and Affective Neuroscience*

2018 Graduate Summer Research Mentorship Fellowship, *UCLA*

2017 Graduate Dean's Scholar Award, *UCLA*

2009-2013 *Bethel College*
Academic Thresher Scholarship, STEM Scholarship, Music Scholarship,
Music Scholar Award, Art Scholarship, Dean's List

PUBLICATIONS

Please note that prior to 2021, I published and presented under the name Miriam E. Weaverdyck

*Denotes equal contributions

ORCID: [0000-0002-4779-7876](https://orcid.org/0000-0002-4779-7876)

Google Scholar Profile: <https://scholar.google.com/citations?user=8dxN6C8AAAAJ>

PUBLISHED

- Schwych, M.E.**, Du, M., Natarajan, P., Chwe, J.A., & Parkinson, C. (2023). Neural encoding of novel social networks: Evidence that perceivers prioritize others' centrality. *Social Cognitive and Affective Neuroscience*, 18(1) 1-9. [PDF](#)
- Schwych, M.E.***, Du, M.*, Li, Y., Chang, L., & Parkinson, C. (2023). Similarity among friends serves as a social prior: The assumption that "Birds of a feather flock together" shapes social decisions and relationship beliefs. *Personality and Social Psychology Bulletin*, 014616722211402. [PDF](#) [OSF](#)
- Sahi, R.S.*, **Schwych, M.E.***, Parkinson, C., & Eisenberger, N.I. (2021). Having more virtual interaction partners during COVID-19 physical distancing measures may benefit mental health. *Scientific Reports*. 11(18273) [PDF](#) [OSF](#)
- Weaverdyck, M.E.**, Thornton, M.A., & Tamir, D.I. (2021). The representational structure of mental states generalizes across target people and stimulus modalities. *NeuroImage*, 238(118258) 1-9. [PDF](#) [OSF](#)
- Weaverdyck, M.E.**, Lieberman, M.D., & Parkinson, C. (2020). Multivoxel pattern analysis in fMRI: A practical introduction for social and affective neuroscientists. *Social Cognitive and Affective Neuroscience*, 15(4) 487-509. [PDF](#)
- Thornton, M.A., **Weaverdyck, M.E.**, & Tamir, D.I. (2019). The brain represents people as the mental states they habitually experience. *Nature Communications*, 10(2291) 1-10. [PDF](#) [OSF](#)
- Thornton, M.A., **Weaverdyck, M.E.**, Mildner, J.N., & Tamir, D.I. (2019). People represent their own mental states more distinctly than others'. *Nature Communications*, 10(2117) 1-9. [PDF](#) [OSF](#)
- Thornton, M.A., **Weaverdyck, M.E.**, & Tamir, D.I. (2019). The social brain automatically predicts others' future mental states. *Journal of Neuroscience*, 39(1) 140-148. [PDF](#) [OSF](#)
- Weaverdyck, M.E.**, & Parkinson, C. (2018). The neural representation of social networks. *Current Opinion in Psychology*, 24, 58-66. [PDF](#)
- Harold H. Kelley Award: Best Basic Research Paper
- Jones, M.A., Shelton, B.C., & **Weaverdyck, M.E.** (2014). On God's Number(s) for Rubik's Slide. *The College Mathematics Journal*, 45(4), 267-275. [PDF](#)
- Anderson, A.L.*, **Weaverdyck, M.E.***, & Krehbiel, D. (2011, March). *Discovering GEMS in music: Armonique digs for music you like*. Paper presented at the National Conference for Undergraduate Research, Ithaca College, NY. [PDF](#)

IN PREPARATION

- Schwych, M.E.**, Du, M., & Parkinson, C. (in prep). The role of one's own social network position in learning new networks: Brokerage is associated with better network learning. [OSF](#)
- Schwych, M.E.** & Parkinson, C. (in prep). Predicting that birds of a feather will flock together: Expectations of homophily for others but not the self.

CONFERENCE PRESENTATIONS

*Denotes multiple presenters

TALKS

- Schwyck, M.E.**, Kim, J., Chey, J., Zerubavel, N., Bearman, P., Youm, Y., & Parkinson, C. (2023). *Contention in real-world social networks: Examining the neural and behavioral correlates of structural equivalence*. Social and Affective Neuroscience Conference, Santa Barbara, CA.
- Weaverdyck, M.E.**, Thornton, M.A., & Tamir, D.I. (2016). *Mental state space expands for self and contracts for others*. New York Social & Affective Neuroscience Meet-Up, Manhattan, NY.
- Weaverdyck, M.E.**, Jones, M.A., & Shelton, B.C. (2013). *Finding God's Number(s) for the Rubik's Slide puzzle: an algebraic graph-theoretic analysis*. Undergraduate Research, Internship and Creative Activity Symposium, North Newton, KS.
- Weaverdyck, M.E.**, Gongora, T., & Unruh, N. (2013). *Positive and negative appraisal: how feedback affects attitudes and performance in math*. Undergraduate Research, Internship and Creative Activity Symposium, North Newton, KS.
- Weaverdyck, M.E.**, Jones, M.A., & Shelton, B.C. (2012). *On God's Number(s) for Rubik's Slide*. Mathematical Association of America MathFest Conference, Madison, WI.

POSTERS

- Schwyck, M.E.**, Du, M., & Parkinson, C. (2022). *Learning the structure of social worlds: Brokerage affects one's ability to learn new social networks*. Society for Personality and Social Psychology Convention, San Francisco, CA.
- Weaverdyck, M.E.**, Du, M., Natarajan, P., Chwe, J.A., & Parkinson, C. (2021). *Neural encoding of new social network structures*. Social and Affective Neuroscience Conference, Virtual.
- Weaverdyck, M.E.**, Du, M., Natarajan, P., Chwe, J.A., & Parkinson, C. (2019). *Contextual goals shape the neural representation of social networks*. UCLA Brain Research Institute's Neuroscience Poster Session, Los Angeles, CA.
- Weaverdyck, M.E.**, Du, M., Natarajan, P., Chwe, J.A., & Parkinson, C. (2019). *Contextual goals shape the neural representation of social networks*. Social and Affective Neuroscience Conference, Miami, FL.
- Weaverdyck, M.E.**, Du, M., Li, Y., Chang, L., & Parkinson, C. (2019). *Social network knowledge shapes trust behavior*. International Convention of Psychological Science, Paris, FR.
- Weaverdyck, M.E.**, Du, M., Li, Y., Chang, L., & Parkinson, C. (2019). *Social network knowledge shapes and is shaped by trust behavior*. Society for Personality and Social Psychology Conference, Portland, OR.
- Weaverdyck, M.E.**, Thornton, M.A., & Tamir, D.I. (2018). *Representational similarity analyses reveal stable mental state concepts for self and others*. São Paulo School of Advanced Sciences on Social and Affective Neuroscience, São Paulo, BR.

- Weaverdyck, M.E.**, Thornton, M.A., & Tamir, D.I. (2018). *Neural representations of mental states remain stable across modalities and targets*. Social and Affective Neuroscience Conference, Brooklyn, NY.
- Weaverdyck, M.E.**, Thornton, M.A., & Tamir, D.I. (2017). *Representational similarity analyses reveal stable mental state concepts for self and others*. Social and Affective Neuroscience Conference, Los Angeles, CA.
- Weaverdyck, M.E.**, Thornton, M.A., & Tamir, D.I. (2017). *Representational similarity analyses reveal stable mental state concepts for self and others*. Society for Personality and Social Psychology Conference, San Antonio, TX.
- Weaverdyck, M.E.***, Anderson, A.L.*, & Krehbiel, D. (2011). *Discovering GEMS in music: Armonique digs for music you like*. Undergraduate Research, Internship and Creative Activity Symposium, North Newton, KS.
- Anderson, A.L.*, **Weaverdyck, M.E.***, & Krehbiel, D. (2011). *Discovering GEMS in music: Armonique digs for music you like*. National Conference for Undergraduate Research, Ithaca, NY.
- Weaverdyck, M.E.***, Anderson, A.L.*, & Krehbiel, D. (2010). *Does liking predict emotional and physiological responses to music*. Undergraduate Research, Internship and Creative Activity Symposium, North Newton, KS.

TEACHING EXPERIENCE

Guest Lecturer, University of California, Los Angeles, Los Angeles, CA

- Psych 236 Methods in Social and Affective Neuroscience (Graduate course) Spring 2022
Introduction to MVPA
- Psych 137I Social Influence (Undergraduate course) Fall 2021
Neural Processes of Persuasion & Influence
- Psych 135 Social Psychology (Undergraduate course) Winter 2021
Introduction to Social Neuroscience

Teaching Assistant, University of California, Los Angeles, Los Angeles, CA

- Psych 85 Introduction to Cognitive Science (Undergraduate course) Spring 2020
- Psych 10 Introductory Psychology (Undergraduate course) Spring 2018

Graduate Student Instructor, University of Michigan, Ann Arbor, MI

- Michigan Math and Science Scholars (Highschool students) Summer 2017, 2018
Mathematics of Decisions, Elections, and Games

Academic Tutor, Bethel College, North Newton, KS

- Center for Academic Development (Undergraduate students) 2010–2013

Undergraduate Student Instructor, University of Michigan, Ann Arbor, MI

- Michigan Math and Science Scholars (Highschool students) Summer 2012
Mathematics of Decisions, Elections, and Games

RESEARCH EXPERIENCE

- 2017–2023 **Graduate Student Researcher, University of California, Los Angeles**
Los Angeles, CA
Computational Social Neuroscience Lab, Dr. Carolyn Parkinson
- 2015–2017 **Research Specialist, Princeton University**
Princeton, NJ
Princeton Social Neuroscience Lab, Dr. Diana I. Tamir
- 2014–2015 **Lab Coordinator, Rutgers University**
New Brunswick, NJ
Rutgers Lab for Developmental Language Studies, Dr. Kristen Syrett
- 2009–2013 **Undergraduate Student Researcher, Bethel College**
North Newton, KS
Dr. Dwight Krehbiel

TRAINING AND PROFESSIONAL DEVELOPMENT

- 2022 New England Future Faculty Workshop, Northeastern University, Boston, MA
- 2020 Neuromatch Academy: Interactive Track, Course Project
- 2019 Kavli Summer Institute in Cognitive Neuroscience, University of California, Santa Barbara, Santa Barbara, CA
- 2019 Summer School in Social Neuroscience & Neuroeconomics, Duke University, Durham, NC
- 2018 São Paulo School of Advanced Sciences on Social and Affective Neuroscience, Mackenzie Presbyterian University, São Paulo, BR
- 2018 Machine Learning with Python, Quantitative and Computational Biology Collaboratory, University of California, Los Angeles, Los Angeles, CA

OPEN SCIENCE

GitHub profile: <https://github.com/mweaverdyck>

Also see lab repositories: github.com/CSNLab, github.com/PrincetonUniversity/prsonpipe

Open Science Framework profile: osf.io/7kc49

SERVICE

DEPARTMENTAL AND UNIVERSITY SERVICE

University of California, Los Angeles, CA

Underrepresented Graduate Students in Psychology 2017–2022

Transfer Outreach Committee, Brownbag Committee

Inclusivity Lab Meeting (organizer, discussion leader) Winter 2021

A conversation on creating supportive and inclusive communities within academia

Social Colloquium Representative 2020–2021

How to Maximize Your Summer Workshop Spring 2021

Ask a Graduate Student Panel	Winter 2020
Applying to Undergraduate Research Programs Workshop	Winter 2020
Maximizing Your Transfer Experience Networking Workshop	Fall 2019
Queers in STEM Mentor	2018–2019
Advancing Women in Science and Engineering	2017–2018
Success in the Life Sciences Workshop	Fall 2018

COMMUNITY SERVICE

Reviewer	2018–Present
<i>Social Cognitive and Affective Neuroscience, Social Neuroscience</i>	
Conference Volunteer, Society for Affective Science	2018
Pro Bono Legal and Administrative Assistant	2013–2014
Mennonite Voluntary Service	
Immigration Legal Services Pro Bono Program, Catholic Charities, Washington, DC	

TECHNICAL SKILLS

<i>Programming Languages</i>	<i>Analyses</i>	<i>Platforms, Equipment</i>
<ul style="list-style-type: none"> ▪ Python, Psychopy ▪ R ▪ Bash ▪ jsPsych ▪ FSL ▪ LaTeX 	<ul style="list-style-type: none"> ▪ Multivoxel Pattern Analysis, Representational Similarity Analysis ▪ Machine learning ▪ Eyetracking ▪ Designed and programmed custom modular fMRI analysis pipelines 	<ul style="list-style-type: none"> ▪ GitHub ▪ Pavlovia ▪ Prolific ▪ MTurk ▪ Qualtrics ▪ fMRI