

MIRIAM E. (WEAVERDYCK) SCHWYCK

mweaverdyck@ucla.edu

ORCID: 0000-0002-4779-7876

[Google Scholar Profile](#)

EDUCATION

Ph.D., Social Psychology, University of California, Los Angeles, CA (Projected) June 2023
Advanced to Candidacy June 2021

Minor: Quantitative Psychology

Advisors: Dr. Carolyn Parkinson, Dr. Matthew Lieberman

Thesis: Tracking relationships: Uncovering how people acquire, represent, and use social network knowledge

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

B.A., Psychology, Mathematical Sciences, Bethel College, North Newton, KS June 2013
Minor: Art

Advisors: Dr. Dwight Krehbiel, Dr. Lisa Thimm

Honors: *Summa Cum Laude*

FELLOWSHIPS, HONORS, AND AWARDS

2022 UCLA Dissertation Year Fellowship (\$20,000 + tuition)
2022 Society for Personality and Social Psychology Graduate Travel Award (\$500)
2021 Social & Affective Neuroscience Poster Award (\$200)
2020 National Science Foundation Graduate Research Fellowship (\$46,000 per year; 3 years)
2019 UCLA Graduate Research Mentorship Fellowship (\$20,000 + tuition)
2019 Kavli Summer Institute in Cognitive Neuroscience Fellow
2019 Duke/NIA Summer School in Social Neuroscience & Neuroeconomics Fellow
2019 UCLA Social Psychology Program Harold H. Kelley Award: Best Basic Research Paper
2019 International Convention of Psychological Science Travel Grant (\$300)
2019 Social & Affective Neuroscience Poster Award (\$200)
2018 São Paulo School of Advanced Sciences on Social and Affective Neuroscience Fellow
2018 UCLA Graduate Summer Research Mentorship Fellowship (\$6,000)
2017 UCLA Graduate Dean's Scholar Award (\$14,000)
2009-2013 Bethel College
Dean's List, Academic Thresher Scholarship, STEM Scholarship, Music Scholarship,
Music Scholar Award, Art Scholarship

OPEN SCIENCE

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

Also see lab repositories:

<https://github.com/CSNLab>

<https://github.com/PrincetonUniversity/prsonpipe>

Open Science Framework profile: osf.io/7kc49

See OSF and preprint hyperlinks in Publications

PUBLICATIONS

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

*Denotes equal contributions

PUBLISHED

Schwyck, M.E., Du, M., Natarajan, P., Chwe, J.A., & Parkinson, C. (in press). Neural encoding of novel social networks: Evidence that perceivers prioritize others' centrality. *Social Cognitive and Affective Neuroscience*, nsac059. [PDF](#)

Schwyck, M.E.*, Du, M.*, Li, Y., Chang, L., & Parkinson, C. (in press). 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*. [Preprint](#) [OSF](#)

Sahi, R.S.*, **Schwyck, 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](#)

UCLA Social Psychology Program 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](#)

SUBMITTED

Schwyck, M.E., Du, M., & Parkinson, C. (under review). Learning the structure of social worlds: Brokerage affects one's ability to learn new social networks. [OSF](#)

CONFERENCE PRESENTATIONS

*Denotes multiple presenters

TALKS

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.

SPSP Graduate Travel Award

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.

SANS Poster Award

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.

SANS Poster Award

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, CA

PSYCH236 Methods in Social and Affective Neuroscience (Graduate course) Spring 2022

Lecture: *Introduction to MVPA*

PSYCH137I Social Influence (Undergraduate course) Fall 2021

Lecture: *Neural Processes of Persuasion & Influence*

PSYCH135 Social Psychology (Undergraduate course) Winter 2021

Lecture: *Introduction to Social Neuroscience*

Teaching Assistant

University of California, Los Angeles, CA

PSYCH85 Introduction to Cognitive Science (Undergraduate course) Spring 2020

PSYCH10 Introductory Psychology (Undergraduate course) Spring 2018

Graduate Student Instructor

2017, 2018

University of Michigan, Ann Arbor, MI, Michigan Math and Science Scholars

Mathematics of Decisions, Elections, and Games (High school summer enrichment program)

Academic Tutor

2010–2013

Bethel College, North Newton, KS

Center for Academic Development (Undergraduate students)

Undergraduate Student Instructor

2012

University of Michigan, Ann Arbor, MI, Michigan Math and Science Scholars

Mathematics of Decisions, Elections, and Games (High school summer enrichment program)

RESEARCH EXPERIENCE

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

TRAINING AND PROFESSIONAL DEVELOPMENT

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

SERVICE

DEPARTMENTAL AND UNIVERSITY SERVICE

University of California, Los Angeles, CA	
Underrepresented Graduate Students in Psychology	2017–2022
<i>Transfer Outreach Committee</i> (2019–2022), <i>Brownbag Committee</i> (2017–2018)	
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

Bethel College, North Newton, KS	
Math Club, <i>Vice President</i> (2011-2012), <i>President</i> (2012-2013)	2009–2013
Student Alumni Association	2010–2013
French Club, <i>Founder</i>	2010–2012

COMMUNITY SERVICE

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

TECHNICAL SKILLS

Programming Languages	Analyses	Platforms, Equipment
<ul style="list-style-type: none"> ▪ Python, Psychopy ▪ R ▪ Bash ▪ jsPsych ▪ FSL ▪ LaTeX ▪ MatLab ▪ SPSS 	<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