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

TEACHING EXPERIENCE

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

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

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

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

SUBMITTED/UNDER REVIEW

Schwyck, M.E., Du, M., & Parkinson, C. (submitted). The role of one's own social network position in learning new networks: Brokerage is associated with better network learning. OSF Preprint

PUBLISHED

Schwyck, 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

Schwyck, 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.*, **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
     - 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

Schwyck, M.E. & Parkinson, C. (in prep). Predicting that birds of a feather will flock together: Expectations of homophily for others but not the self.

Schwyck, M.E.*, Guassi Moreira, J.F.*, & Parkinson, C. (in prep). Do different aspects of psychological distance differentially predict social behavior?

PRESENTATIONS

*Denotes multiple presenters

TALKS

Schwyck, M.E., Du, M., & Parkinson, C. (2024) *The role of one's own social network position in learning new networks: Brokerage is associated with better network learning.* Social and Affective Neuroscience Conference, Toronto, ON, Canada.

Schwyck, M.E. (2023) *Tracking relationships: Uncovering how people acquire, represent, use, and predict social network information.* Social Connection Lab Meeting, University of Southern, California, Los Angeles, CA.

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

Basyouni, R., **Schwyck, M.E.**, Du, M., & Parkinson, C. (2024). *Tracking and applying knowledge of centrality in social networks.* Social and Affective Neuroscience Conference, Toronto, ON, Canada.

Guassi Moreira, J.F., **Schwyck, M.E.**, & Parkinson, C. (2024) *What drives the link between psychological distance and social behavior?* Society for Affective Science Conference, New Orleans, LA

Schwyck, M.E. & Parkinson, C. (2024). *Assumptions of homophily shape social decisions and relationship beliefs.* Society for Personality and Social Psychology Conference, San Diego, CA.

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.

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
  Social Cognitive and Affective Neuroscience, Social Neuroscience, Nature Neuroscience

Volunteer, Society for Affective Science Conference   2018

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

- Python, Psychopy
- R
- Bash
- jsPsych
- FSL
- LaTeX

Analyses

- Multivoxel Pattern Analysis, Representational Similarity Analysis
- Machine learning
- Eyetracking
- Designed and programmed custom modular fMRI analysis pipelines

Platforms, Equipment

- GitHub
- Pavlovia
- Prolific
- MTurk
- Qualtrics
- fMRI