MIRIAM E. (WEAVERDYCK) SCHWYCK

University of California, Los Angeles | Department of Psychology
Pritzker Hall, 502 Portola Plaza
Los Angeles, CA 90095
mweaverdyck@ucla.edu

EDUCATION

2023 **Ph.D., Psychology, University of California, Los Angeles**, Los Angeles, CA
Major: Social Psychology; Minor: Quantitative Psychology
Advisors: Drs. Carolyn Parkinson, Matthew Lieberman

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

2013 **B.A., Bethel College**, North Newton, KS
Majors: Psychology, Mathematical Sciences; Minor: Art
Advisors: Drs. Dwight Krehbiel, Lisa Thimm
Honors: Summa Cum Laude

FELLOWSHIPS, HONORS, AND AWARDS

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

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

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

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
- 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.
- 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.
- 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.
- 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, Los Angeles, CA
- Psych 236 Methods in Social and Affective Neuroscience (Graduate course) — Spring 2022
  - Lecture: Introduction to MVPA
- Psych 137I Social Influence (Undergraduate course) — Fall 2021
  - Lecture: Neural Processes of Persuasion & Influence
- Psych 135 Social Psychology (Undergraduate course) — Winter 2021
  - Lecture: 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) — Summers 2017, 2018
  - Course: 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
  - Course: Mathematics of Decisions, Elections, and Games

RESEARCH EXPERIENCE

2017–Present **Graduate Student Researcher, University of California, Los Angeles**
Los Angeles, CA
Computational Social Neuroscience Lab, Dr. Carolyn Parkinso

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

SERVICE

DEPARTMENTAL AND UNIVERSITY SERVICE

University of California, Los Angeles, CA

Underrepresented Graduate Students in Psychology	2017–2022
Transfer Outreach Committee (2019-2022), *Brownbag Committee* (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

COMMUNITY SERVICE

Reviewer 2018–Present
Social Cognitive and Affective Neuroscience, Social Neuroscience

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

Programming Languages

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

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