

# MIRIAM E. SCHWYCK, PH.D.

Previously Miriam E. Weaverdyck  
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## ACADEMIC APPOINTMENTS

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2023–Present Postdoctoral Scholar, Columbia University, NY  
Advisor: Meghan Meyer, Ph.D.

## EDUCATION

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2023 Ph.D., Psychology, University of California, Los Angeles, CA  
Advisor: Carolyn Parkinson, Ph.D.  
2018 M.A., Psychology, University of California, Los Angeles, CA  
Advisors: Carolyn Parkinson, Ph.D.; Matthew Lieberman, Ph.D.  
2013 B.A., Psychology, Mathematical Sciences, Bethel College, KS  
Advisors: Dwight Krehbiel, Ph.D.; Lisa Thimm, Ph.D.  
Honors: *Summa Cum Laude*

## FELLOWSHIPS, HONORS, AND AWARDS

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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

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

\*Denotes equal contributions

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

## PUBLISHED

**Schwyck, M.E.**, Du, M., & Parkinson, C. (2025). The role of one's own social network position in learning new networks: Brokerage is associated with better network learning. *Journal of Experimental Psychology: General*. Advance online publication. [PDF](#) [OSF](#)

Ma de Sousa, A.Q., **Schwyck, M.E.**, Furtado Fernandes, L., Ford, E., Babür, B.G., Lu, C., Zimmerman, J.C., Yu, H., Burns, S.M.\* & Baek, E.C.\* (2025). Loneliness is associated with unstable and distorted emotion transition predictions. *Communications Psychology*, 3(132). [PDF](#) [OSF](#)

**Schwyck, M.E.** & Parkinson, C. (2025). Predicting that birds of a feather will flock together: Expectations of homophily for others but not the self. *Journal of Experimental Social Psychology*, 120(104784). [PDF](#) [OSF](#)

**Schwyck, M.E.\***, Du, M.\* , Li, Y., Chang, L., & Parkinson, C. (2024). 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*, 50(6). [PDF](#) [OSF](#)

**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](#)

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

**Schwyck, M.E.**, Kim, J., Chey, J., Zerubavel, N., Bearman, P., Youm, Y. Parkinson, C. (in prep). Contention in real-world social networks: Examining the neural and behavioral correlates of structural equivalence.

## **PRESENTATIONS**

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\*Denotes multiple presenters

### **TALKS**

**Schwyck, M.E.**, Du, M., & Parkinson, C. (2026) *Brokerage is associated with better network learning*. Society for Personality and Social Psychology Conference, Chicago, IL.

**Schwyck, M.E.\***, Meyer, M.\*., Mundy, K., Vyas, A., & Broom, T. (2025) *People are around me but not with me: Loneliness reflects disconnected self and social knowledge*. Society for Experimental Social Psychology Conference, Lisbon, Portugal.

**Schwyck, M.E.** (2025) *Social Network Analysis*. Naturalistic Methods Beyond Neuroimaging: Capturing Behavior in the Wild Preconference, Social and Affective Neuroscience Society Conference, Chicago, IL.

**Schwyck, M.E.** (2024) *Tracking our social worlds*. Social and Affective Processes Seminar, Columbia University, New York, NY.

**Schwyck, M.E.**, Du, M., & Parkinson, C. (2024) *Tracking relationships: Uncovering how people acquire and neurally encode others' social networks*. International Network for Social Network Analysis SunBelt Conference, Edinburgh, Scotland.

**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, PI Elisa Baek, 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.

**Schwyck, M.E.** (2023) *Introduction to fMRIprep*. Lab Meeting, PI Yoosik Youm, Yonsei University, Seoul, South Korea.

**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**

Mundy, K., **Schwyck, M.E.**, & Meyer, M.L. (2025) *Lonely individuals idiosyncratically interpret social information from novel narratives*. Social and Affective Neuroscience Society Conference, Chicago, IL.

- Schwyck, M.E.**, Mundy, K., & Meyer, M.L. (2025) *Neural encoding of valenced social networks*. Society for Affective Science Conference, Portland, OR.
- Ma De Sousa, A.Q., **Schwyck, M.E.**, Burns, S., Babür, B., Chang, L., Zimmeman, J., & Baek, E.C. (2025). *Do lonely individuals have idiosyncratic neural representations when thinking about their own and others' emotional transitions?* Society for Personality and Social Psychology, Denver, CO.
- 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.

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## **RESEARCH EXPERIENCE**

- 2023–Present    **Postdoctoral Scholar, Columbia University**  
New York, NY  
Columbia Social Neuroscience Lab, PI: Meghan Meyer, Ph.D.
- 2017–2023    **Graduate Student Researcher, University of California, Los Angeles**  
Los Angeles, CA  
Computational Social Neuroscience Lab, PI: Carolyn Parkinson, Ph.D.
- 2015–2017    **Research Specialist, Princeton University**  
Princeton, NJ  
Princeton Social Neuroscience Lab, PI: Diana I. Tamir, Ph.D.
- 2014–2015    **Lab Coordinator, Rutgers University**  
New Brunswick, NJ  
Rutgers Lab for Developmental Language Studies, PI: Kristen Syrett, Ph.D.
- 2009–2013    **Undergraduate Student Researcher, Bethel College**  
North Newton, KS  
PI: Dwight Krehbiel, Ph.D.

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## **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

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## **TEACHING EXPERIENCE**

### **Guest Lecturer**

- Summer 2025    Comm 115 Interpersonal Dynamics (Undergraduate course), UCLA  
                    *Social Network Analysis*
- Fall 2024        Current Topics in Cognitive Neuroscience (Graduate course), Columbia University  
                    *Social Cognition*
- Spring 2022      Psych 236 Methods in Social and Affective Neuroscience (Graduate course) , UCLA  
                    *Introduction to MVPA*

- Fall 2021 Psych 137I Social Influence (Undergraduate course), UCLA  
*Neural Processes of Persuasion & Influence*
- Winter 2021 Psych 135 Social Psychology (Undergraduate course), UCLA  
*Introduction to Social Neuroscience*
- Teaching Assistant, University of California, Los Angeles, CA**
- Spring 2020 Psych 85 Introduction to Cognitive Science (Undergraduate course)
- Spring 2018 Psych 10 Introductory Psychology (Undergraduate course)

- Graduate Student Instructor, University of Michigan, Ann Arbor, MI**
- Summer 2017 Michigan Math and Science Scholars (Highschool course)  
*Mathematics of Decisions, Elections, and Games*
- Summer 2018 Michigan Math and Science Scholars (Highschool course)  
*Mathematics of Decisions, Elections, and Games*

- Academic Tutor, Bethel College, North Newton, KS**
- 2010–2013 Center for Academic Development (Undergraduate students)

- Undergraduate Student Instructor, University of Michigan, Ann Arbor, MI**
- Summer 2012 Michigan Math and Science Scholars (Highschool course)  
*Mathematics of Decisions, Elections, and Games*

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## **SERVICE**

### COMMUNITY SERVICE

- 2025 Methods Roundtable Host  
*Society for Affective Science, Social Network Analysis*
- 2025 Conference Abstract Reviewer  
*Social and Affective Neuroscience Society*
- 2018–Present Reviewer  
*Social Cognitive and Affective Neuroscience, Social Neuroscience, Nature Neuroscience, Psychonomic Bulletin & Review, Nature Communications*
- 2018 Conference Volunteer  
*Society for Affective Science Conference*
- 2013–2014 Pro Bono Legal and Administrative Assistant  
*Mennonite Voluntary Service*  
Immigration Legal Services Pro Bono Program, Catholic Charities, Washington, DC

### DEPARTMENTAL AND UNIVERSITY SERVICE

- University of California, Los Angeles, Los Angeles, CA
- 2017–2022 Underrepresented Graduate Students in Psychology  
*Transfer Outreach Committee, Brownbag Committee*
- Winter 2021 Inclusivity Lab Meeting (organizer, discussion leader)  
*A conversation on creating supportive and inclusive communities within academia*
- 2020–2021 Social Colloquium Representative
- Spring 2021 How to Maximize Your Summer Workshop
- Winter 2020 Ask a Graduate Student Panel
- Winter 2020 Applying to Undergraduate Research Programs Workshop
- Fall 2019 Maximizing Your Transfer Experience Networking Workshop
- 2018–2019 Queers in STEM Mentor

2017–2018      Advancing Women in Science and Engineering  
Fall 2018        Success in the Life Sciences Workshop

## **OPEN SCIENCE**

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

*Also see lab repositories: [github.com/Dartmouth-Social-Neuroscience-Lab](https://github.com/Dartmouth-Social-Neuroscience-Lab), [github.com/CSNLab](https://github.com/CSNLab),  
[github.com/PrincetonUniversity/prsonpipe](https://github.com/PrincetonUniversity/prsonpipe)*

Open Science Framework profile: <https://osf.io/7kc49/>

## **TECHNICAL SKILLS**

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