

# MIRIAM E. SCHWYCK, PH.D.

Previously Miriam E. Weaverdyck  
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## ACADEMIC APPOINTMENTS

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2023–Present      Postdoctoral Research Scientist, 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

**Schwyc, 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.**, Mundy, K., & Meyer, M.L. (in prep). Social network position matters: Brokerage predicts naturalistic social network learning.
- Mundy, K., **Schwyck, M.E.**, & Meyer, M.L. (in prep). Lonely individuals learn social information idiosyncratically.
- Schwyck, M.E.**, Mundy, K., & Meyer, M.L. (in prep). Neural consolidation of social network information.

**Schwyck, M.E.,** Mundy, K., & Meyer, M.L. (in prep). Spontaneous naturalistic encoding of valenced social networks.

Furtado Fernandes, L., **Schwyck, M.E.,** Mundy, K., Iyer, S., Broom, T.W. & Meyer, M. (in prep). Lonely people perceive blurred social group boundaries.

**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

### INVITED AND CONFERENCE 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.** (2025) *Learning New Social Networks*. IMPACT Lab Meeting, PI Chujun Lin, Columbia University, New York, NY.

**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, Department of Psychology, 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 fMRI Prep*. 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., **Schwych, M.E.,** & Meyer, M.L. (2026) *Lonely individuals learn social information idiosyncratically*. Society for Personality and Social Psychology Conference, Chicago, IL.
- Furtado Fernandes, L., **Schwych, M.E.,** Mundy, K., Iyer, S., Broom, T.W. & Meyer, M. (2026) *Lonely people perceive blurred social group boundaries*. Society for Personality and Social Psychology Conference, Chicago, IL.
- Mundy, K., **Schwych, M.E.,** & Meyer, M.L. (2025) *Lonely individuals idiosyncratically interpret social information from novel narratives*. Social and Affective Neuroscience Society Conference, Chicago, IL.
- Schwych, 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., **Schwych, M.E.,** Burns, S., Babür, B., Chang, L., Zimmerman, 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., **Schwych, 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., **Schwych, M.E.,** & Parkinson, C. (2024) *What drives the link between psychological distance and social behavior?* Society for Affective Science Conference, New Orleans, LA
- Schwych, M.E.** & Parkinson, C. (2024). *Assumptions of homophily shape social decisions and relationship beliefs*. Society for Personality and Social Psychology Conference, San Diego, CA.
- Schwych, 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.

## **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/>

## **RESEARCH EXPERIENCE**

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- 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**

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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**

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##### **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, 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*

## SERVICE

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### 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

## 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>