

# MARLENE D. BERKE

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## EDUCATION

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### Yale University

2019 - Present

PhD in Cognitive Psychology in 2025 (anticipated)

### Cornell University

2015 - 2019

BA in College Scholar: Computational Cognitive Neuroscience

Minors in Statistics, Biology, Psychology, and Cognitive Science

## HONORS AND AWARDS

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### College Scholar Honors Thesis

Fall 2018 - Spring 2019

Awarded Summa Cum Laude

### Tanner Dean Scholar

2015 - 2019

Granted a \$5000 research stipend for Summer 2018

## PUBLICATIONS

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**Berke, M.**, Azerbayev, Z., Belledonne, M., Tavares, Z., & Jara-Ettinger, J. (*under review*). Learning a metacognition for object detection.

**Berke, M.**, Walter-Terrill, R., Jara-Ettinger, J., & Scholl, B. J. (*in press*). Flexible goals require that inflexible perceptual systems produce veridical representations: Implications for realism as revealed by evolutionary simulations. *Cognitive Science*.

**Berke, M.**, & Jara-Ettinger, J. (2022). Integrating Experience into Bayesian Theory of Mind. *Proceedings of the 44th Annual Conference of the Cognitive Science Society*.

**Berke, M.**, & Jara-Ettinger, J. (2021). Thinking About Thinking Through Inverse Reasoning. *Proceedings of the 43rd Annual Conference of the Cognitive Science Society*.

**Berke, M.**, Belledonne, M., & Jara-Ettinger, J. (2020). Learning a metacognition for object perception. *NeurIPS SVRHM workshop*.

**Berke, M. D.**, Field, D. J., & Cleland, T. A. (2017). The Sparse Structure of Natural Chemical Environments. *Proceedings from the International Symposium on Olfaction and Electronic Nose (ISOEN)*.

## SELECTED TALKS AND POSTERS

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**Berke, M.** (presenter), & Jara-Ettinger, J. (2022). Integrating Experience into Bayesian Theory of Mind. Poster presented at the 44th Annual Conference of the Cognitive Science Society.

**Berke, M.** (presenter), Azerbayev, Z., Belledonne, M., Tavares, Z., & Jara-Ettinger, J. (2022). MetaCOG: Learning a metacognition for what objects are actually there. Poster presented at ICML Workshop – Beyond Bayes: Paths Towards Universal Reasoning Systems.

**Berke, M.** (presenter), (2022). Modeling Metacognition. Invited talk in the Human and Machine Cognition Lab's seminar on social learning and decision making at Max Planck Institute for Biological Cybernetics in Tübingen, Germany.

**Berke, M.** (presenter), & Jara-Ettinger, J. (2021). Thinking About Thinking Through Inverse Reasoning. Poster presented at the 43rd Annual Conference of the Cognitive Science Society.

**Berke, M.** (presenter), & Jara-Ettinger, J. (2021). Thinking About Thinking Through Inverse Reasoning. Poster presented at the 47th Annual Meeting of the Society for Philosophy and Psychology.

**Berke, M.** (presenter), Walter-Terrill, R., Jara-Ettinger, J., & Scholl, B. (2021). Flexible goals require that inflexible perceptual systems produce veridical representations: Implications for realism as revealed by evolutionary simulations. Talk given at the 21st Annual Meeting of the Vision Science Society.

## TEACHING

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### **Introduction to Statistics**

*Spring 2021 & 2022*

Teaching Fellow (Yale University). Led discussion sections.

### **Multivariate Statistics**

*Fall 2020 & 2021*

Teaching Fellow (Yale University). Delivered guest lectures.

### **Introduction to Statistics for Biology**

*Fall 2017 - Spring 2019*

Teaching Assistant (Cornell University). Led discussion sections.

## MENTORSHIP

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### **Psychology SNEAK Peak Program Mentor**

*Fall 2020 - Present*

Yale University. The program pairs individuals from an underrepresented background with a current PhD student to help guide them through applying to graduate school.

### **Psychology Graduate Student Peer Mentor**

*Fall 2020 - Present*

Yale University

### **Peer Orientation Mentor**

*Summer 2020*

Yale University

### **Undergraduates Research Assistants Mentored**

Zhangir Azerbayev (December 2020 - May 2022), Tanushree Burman (January 2021 - Fall 2021), Bernardo Eilert Trevisan (January 2021 - Spring 2021), Ben Sterling (June 2022 - Present), and Abi Tenenbaum (June 2022 - Present).

## SERVICE

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### **Reviews**

Reviewed for *Psychological Review* and for the 43rd and 44th *Annual Conference of the Cognitive Science Society*.