

# ERIK BROCKBANK

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## EDUCATION

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<b>University of California, San Diego</b>	<i>2018–2023 (expected)</i>
Ph.D. <i>Psychology and Cognitive Science</i> (GPA: 3.94 / 4.0)	
<b>Stanford University</b>	<i>2014</i>
B.S., M.S. <i>Symbolic Systems</i> (GPA: 3.63 / 4.0)	

## FELLOWSHIPS & GRANTS

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UCSD Academic Senate General Research Grant (\$10,000)	<i>May 2022</i>
UCSD Anderson Graduate Research Fellowship (\$1,500)	<i>Sep. 2019</i>
UCSD Katzin Graduate Fellowship (\$50,000)	<i>Sep. 2018</i>

## ACADEMIC HONORS & AWARDS

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Psychonomic Society Graduate Conference Award (\$1,000)	<i>Oct. 2020</i>
Cognitive Science Society Computational Prize (\$1,000)	<i>June 2020</i>
K. Jon Barwise Award for distinguished contributions to Stanford Symbolic Systems	<i>June 2014</i>

## LEADERSHIP & OUTREACH

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<i>UCSD Graduate Student Association</i> Psychology Dept. Representative	<i>May 2022 - present</i>
<i>UCSD Psychology Department</i> Climate Committee Member	<i>Nov. 2020 - present</i>
<i>UCSD Psychology Department</i> Graduate Statistics Advisor	<i>Sep. 2019 - present</i>
<i>UCSD Psychology Student Speaker Series</i> Graduate Student Officer	<i>May 2019 - present</i>
<i>UCSD Psychology Data Science Club</i> Club Leader	<i>May 2019 - present</i>
<i>UCSD Graduate Students</i> GradAMP Mentor	<i>Sep. 2020 - Mar. 2021</i>
<i>UCSD Psychology Colloquium Series</i> Graduate Student Officer	<i>May 2019 - May 2020</i>

## JOURNAL ARTICLES

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**Brockbank, E.**, Lombrozo, T., Gopnik, A., & Walker, C. (2022). Ask me why, don't tell me why: Asking children for explanations facilitates relational thinking. *Developmental Science*.

**Brockbank, E.**, & Walker, C. (2022). Explanation Impacts Hypothesis Generation, but not Evaluation, During Learning. *Cognition*.

**Brockbank, E.**, Vul, E. & Barner, D. (2022). Ongoing dynamic calibration produces unstable number estimates. *Journal of Experimental Psychology: General*.

Schneider, R., **Brockbank, E.**, Feiman, R., & Barner, D. (2021). Counting and the ontogenetic origins of exact equality. *Cognition*.

**Brockbank, E.**, & Vul, E. (2021). Formalizing Opponent Modeling with the Rock, Paper, Scissors Game. *Games*.

Destefano, I., Oey, L.A., **Brockbank, E.**, & Vul, E. (2021). Integration by Parts: Collaboration and Topic Structure in the CogSci Community. *Topics in Cognitive Science*.

## CONFERENCE PROCEEDINGS

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**Brockbank, E.**, Wang, H., Yang, J., Mirchandani, S., Bıyık, E., Sadigh, D., & Fan, J. (2022). How do people incorporate advice from artificial agents when making physical judgments? In *Proceedings of the 44th Annual Conference of the Cognitive Science Society*.

**Brockbank, E.**, & Vul, E. (2021). Humans fail to outwit adaptive rock, paper, scissors opponents. In *Proceedings of the 43rd Annual Conference of the Cognitive Science Society*.

**Brockbank, E.**, & Vul, E. (2020). Recursive Adversarial Reasoning in the Rock, Paper, Scissors Game. In *Proceedings of the 42nd Annual Conference of the Cognitive Science Society*.

**Brockbank, E.**, & Walker, C. (2020). Explanation Supports Hypothesis Generation in Learning. In *Proceedings of the 42nd Annual Conference of the Cognitive Science Society*.

Oey, L.A., Destefano, I., **Brockbank, E.**, & Vul, E. (2020). Formalizing interdisciplinary collaboration in the CogSci community. In *Proceedings of the 42nd Annual Conference of the Cognitive Science Society*.

**Brockbank, E.**, & Vul, E. (2019). Mapping visual features onto numbers. In *Proceedings of the 41st Annual Conference of the Cognitive Science Society*.

**Brockbank, E.**, & Smith, K. & Vul, E. (2019). When do people use containment heuristics for physical predictions? In *Proceedings of the 41st Annual Conference of the Cognitive Science Society*. (Retraction November, 2019).

## BOOK CHAPTERS

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**Brockbank, E.**, Holdaway, C., Acosta-Kane, D. & Vul, E. (in press). Sampling Data, Beliefs, and Actions. In Fiedler, K., Juslin, P., & Denrell, J. (Eds.), *Sampling in Judgment and Decision Making*. Cambridge University Press.

## CONFERENCE PRESENTATIONS

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**Brockbank, E.**, Wang, H., Yang, J., Mirchandani, S., Bıyık, E., Sadigh, D., & Fan, J. (2022, July). How do people incorporate advice from artificial agents when making physical judgments? Talk at the 44th Annual Conference of the Cognitive Science Society.

**Brockbank, E.**, & Vul, E. (2021, November). Rock, paper, scissors agents exploit patterns in human sequential behavior. Talk at the 62nd Annual Meeting of the Psychonomic Society.

**Brockbank, E.**, & Vul, E. (2021, July). Humans fail to outwit adaptive rock, paper, scissors opponents. Poster presented at the 43rd Annual Conference of the Cognitive Science Society.

**Brockbank, E.**, & Walker, C. (2021, July). Explanation Impacts Hypothesis Generation, but not Evaluation, during Learning. Poster presented at the 47th Annual Conference of the Society for Philosophy and Psychology.

**Brockbank, E.**, & Vul, E. (2020, November). Modeling Adaptive Reasoning in Rock, Paper, Scissors. Poster presented at the 61st Annual Meeting of the Psychonomic Society.

**Brockbank, E.**, & Vul, E. (2020, July). Recursive Adversarial Reasoning in the Rock, Paper, Scissors Game. Talk at the 42nd Annual Conference of the Cognitive Science Society.

**Brockbank, E.**, & Walker, C. (2020, July). Explanation Supports Hypothesis Generation in Learning. Talk at the 42nd Annual Conference of the Cognitive Science Society.

Oey, L.A., Destefano, I., **Brockbank, E.**, & Vul, E. (2020, July). Formalizing interdisciplinary collaboration in the CogSci community. Talk at the 42nd Annual Conference of the Cognitive Science Society.

**Brockbank, E.**, & Vul, E. (2020, July). Adaptive Reasoning in Rock-Paper-Scissors. Talk at the 53rd Annual Conference of the Society for Mathematical Psychology.

**Brockbank, E.**, & Vul, E. (2019, July). Mapping visual features onto numbers. Poster presented at the 41st Annual Conference of the Cognitive Science Society. Montreal, Quebec, Canada.

**Brockbank, E.**, Smith, K., & Vul, E. (2019, July). When do people use containment heuristics for physical predictions? Poster presented at the 41st Annual Conference of the Cognitive Science Society. Montreal, Quebec, Canada.

**Brockbank, E.**, & Vul, E. (2019, June). Mapping visual features onto numbers. Poster presented at the 45th Annual Conference of the Society for Philosophy and Psychology. San Diego, California, USA.

## INVITED TALKS

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**2022, October.** Naval Research Laboratory “Reasoning Lunch Series”

## TEACHING

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<b>Instructor of Record</b> Data & Model Programming for Comp. Social Science	<i>Mar. - June 2022</i>
<b>Teaching Assistant</b> Research Methods in Psychology	<i>Sep. - Dec. 2021</i>
<b>Teaching Assistant</b> Computational Social Science Foundations (python)	<i>Aug. - Sep. 2021</i>
<b>Teaching Assistant</b> Psychology: Cognitive Foundations	<i>Mar. - Jun. 2021</i>
<b>Teaching Assistant</b> Introduction to Psychology	<i>Sep. - Dec. 2020</i>
<b>Teaching Assistant</b> Psychology of Parenting	<i>Mar. - June 2020</i>
<b>Teaching Assistant</b> Introduction to Psychology	<i>Sep. - Dec. 2019</i>
<b>Teaching Assistant</b> Industrial & Organizational Psychology	<i>Jul. - Aug. 2019</i>
<b>Teaching Assistant</b> Developmental Psychology	<i>Jan. - Mar. 2019</i>
<b>Teaching Assistant</b> Media Economics	<i>Mar. - June 2014</i>
<b>Teaching Assistant</b> Introduction to Cognitive Science	<i>Jan. - Mar. 2014</i>
<b>Teaching Assistant</b> Introduction to Cognitive Psychology	<i>Sep. - Dec. 2012</i>

## MENTORSHIP

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Alison Yu (UCSD Undergraduate)	<i>Apr. 2021 - present</i>
MJ Mei (UCSD Undergraduate)	<i>Apr. 2021 - present</i>
Betty Gong (UCSD Undergraduate)	<i>Apr. 2021 - present</i>
Annalea O'Halloran (UCSD Undergraduate)	<i>Apr. 2021 - Dec. 2021</i>