

ERIK BROCKBANK

(720) · 227 · 1209 ◊ erik.brockbank@gmail.com

linkedin.com/in/erik-brockbank ◊ erikbrockbank.com ◊ github.com/erik-brockbank

EDUCATION

University of California, San Diego Ph.D. <i>Psychology and Cognitive Science</i> (GPA: 3.94 / 4.0)	2018–2023 (<i>expected</i>)
Marine Biological Laboratory Summer Course Brains, Minds, & Machines Program	2020 - <i>Remote</i>
Stanford University B.S., M.S. <i>Symbolic Systems</i> (GPA: 3.63 / 4.0)	2014

ACADEMIC HONORS AND AWARDS

UCSD Chancellor's Interdisciplinary Collaboratories (\$7,500)	Feb. 2021
Psychonomic Society Graduate Conference Award (\$1,000)	Oct. 2020
Cognitive Science Society Computational Prize (\$1,000)	June 2020
UCSD Anderson Graduate Research Fellowship (\$1,500)	Sep. 2019
UCSD Katzin Graduate Fellowship (\$50,000)	Sep. 2018
K. Jon Barwise Award for distinguished contributions to Stanford Symbolic Systems	June 2014

LEADERSHIP & OUTREACH EXPERIENCE

<i>UCSD Graduate Students</i> GradAMP Mentor	Sep. 2020 - Mar. 2021
<i>UCSD Psychology Department</i> Climate Committee Member	Nov. 2020 - present
<i>UCSD Psychology Department</i> Graduate Statistics Advisor	Sep. 2019 - present
<i>UCSD Psychology Data Science Club</i> Club Leader	May 2019 - present
<i>UCSD Psychology Colloquium Series</i> Graduate Student Officer	May 2019 - present
<i>UCSD Psychology Student Speaker Series</i> Graduate Student Officer	May 2019 - present
<i>Stanford Symbolic Systems Student Society</i> Founder	2013
<i>Stanford Symbolic Systems Department</i> Undergraduate Advising Fellow	2013, 2014

RESEARCH EXPERIENCE

UC San Diego Computational Cognition Lab <i>Ph.D. Research</i> <ul style="list-style-type: none">Bayesian computational modeling and behavioral research on adversarial reasoning, numerical cognition (PI: Edward Vul)	Sep. 2018 - present
UC San Diego Early Learning & Cognition Lab <i>Ph.D. Research</i> <ul style="list-style-type: none">Behavioral research on hypothesis generation, relational reasoning, and explanation (PI: Caren Walker)	Sep. 2018 - present
Stanford Virtual Human Interaction Lab <i>Master's Research</i> <ul style="list-style-type: none">Master's thesis on learning in virtual environments (Advisors: Jeremy Bailenson, Daniel Schwartz)	June 2013 - June 2014

JOURNAL ARTICLES

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*.

MANUSCRIPTS

Brockbank, E., & Vul, E. (in review). Rock, paper, scissors reveals limits of a “behaviorist” theory of mind.

Brockbank, E., & Walker, C. (in review). Explanation Impacts Hypothesis Generation, but not Evaluation, During Learning.

Brockbank, E., Lombrozo, T., Gopnik, A., & Walker, C. (in review). Ask me why, don’t tell me why: Asking children for explanations facilitates relational thinking.

Brockbank, E., Vul, E. & Barner, D. (in review). Ongoing dynamic calibration produces unstable number estimates.

Schneider, R., **Brockbank, E.**, Feiman, R., & Barner, D. (in prep). Impacts of language on children’s understanding of equality.

CONFERENCE PROCEEDINGS

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

Brockbank, E., Holdaway, C., Acosta-Kane, D. & Vul, E. (in prep) An expected utility framework for sampling in decision making. In *Fiedler, K., Juslin, P., & Denrell, J. (Eds), Sampling in Judgment and Decision Making*.

CONFERENCE PRESENTATIONS

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

Brockbank, E. (2020, October) Behaviorist theory of mind: Human adaptive reasoning in the rock, paper, scissors game. Invited talk at the UCSD cogtools lab. San Diego, CA.

Brockbank, E. (2020, October) Behaviorist theory of mind: Human adaptive reasoning in the rock, paper, scissors game. Invited talk at the UCSD cognitive brown-bag. San Diego, CA.

TEACHING EXPERIENCE

Teaching Assistant Psychology: Cognitive Foundations	<i>Mar. - Jun. 2021</i>
Teaching Assistant Introduction to Psychology	<i>Sep. - Dec. 2020</i>
Teaching Assistant Psychology of Parenting	<i>Mar. - June 2020</i>
Teaching Assistant Introduction to Psychology	<i>Sep. - Dec. 2019</i>
Teaching Assistant Industrial & Organizational Psychology	<i>Jul. - Aug. 2019</i>
Teaching Assistant Developmental Psychology	<i>Jan. - Mar. 2019</i>
Teaching Assistant Media Economics	<i>Mar. - June 2014</i>
Teaching Assistant Introduction to Cognitive Science	<i>Jan. - Mar. 2014</i>
Teaching Assistant Introduction to Cognitive Psychology	<i>Sep. - Dec. 2012</i>

TECHNICAL SKILLS

Languages	Python; Golang; experience with Java, C++, C
Analytics	R; Python (matplotlib); Matlab; Excel
Web	HTML; CSS; Typescript; Javascript (jQuery, Flask, node.js, socket.io, D3.js)
Databases	MySQL; HiveQL
Tools	github, Anaconda/Jupyter, AWS
Other	Spanish (fluent)