

ERIK BROCKBANK

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EDUCATION

University of California, San Diego Ph.D. <i>Experimental Psychology</i>	2023
Stanford University M.S., <i>Symbolic Systems</i>	2014
Stanford University B.S., <i>Symbolic Systems</i>	2013

FELLOWSHIPS & GRANTS

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

ACADEMIC HONORS & AWARDS

PsychTerms Graduate Research Award	Dec. 2022
Psychonomic Society Graduate Conference Award (\$1,000)	Oct. 2020
Cognitive Science Society Computational Prize (\$1,000)	June 2020

LEADERSHIP & OUTREACH

UCSD Graduate Student Association Psychology Dept. Representative	May 2022 - June 2023
UCSD Psychology Department Climate Committee Member	Nov. 2020 - June 2023
UCSD Psychology Department Graduate Statistics Advisor	Sep. 2019 - June 2023
UCSD Psychology Student Speaker Series Graduate Student Officer	June 2019 - June 2023
UCSD Graduate Students GradAMP Mentor	Sep. 2020 - Mar. 2021
UCSD Psychology Data Science Club Club Leader	June 2019 - June 2020
UCSD Psychology Colloquium Series Graduate Student Officer	June 2019 - June 2020

JOURNAL ARTICLES

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*.

Brockbank, E., & Vul, E. (in prep). Repeated rock, paper, scissors play reveals limits in adaptive reasoning.

Brockbank, E., & Vul, E. (in prep). Opponent modeling in repeated dyadic interactions.

CONFERENCE PROCEEDINGS

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

Brockbank, E., Holdaway, C., Acosta-Kane, D. & Vul, E. (2023). Sampling Data, Beliefs, and Actions. In Fiedler, K., Juslin, P., & Denrell, J. (Eds.), *Sampling in Judgment and Decision Making*. Cambridge University Press.

CONFERENCE PRESENTATIONS

Lloyd, H., Tait, Z., **Brockbank, E.,** Liao, S., & Fan, J. (2022, December). How well do student attitudes and engagement predict learning outcomes in introductory data science courses? Talk at the PsychTerms Annual Meeting.

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

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

TEACHING

Instructor of Record Data & Model Programming for Comp. Social Science	<i>Mar. - June 2022</i>
Teaching Assistant Research Methods in Psychology	<i>Jan. - Mar. 2023</i>
Teaching Assistant Research Methods in Psychology	<i>Sep. - Dec. 2022</i>
Teaching Assistant Research Methods in Psychology	<i>Sep. - Dec. 2021</i>
Teaching Assistant Computational Social Science Foundations (python)	<i>Aug. - Sep. 2021</i>
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>

MENTORSHIP

Alison Yu (UCSD Undergraduate)
MJ Mei (UCSD Undergraduate)
Betty Gong (UCSD Undergraduate)
Annalea O'Halloran (UCSD Undergraduate)

Apr. 2021 - Jan. 2023
Apr. 2021 - Jan. 2023
Apr. 2021 - Jan. 2023
Apr. 2021 - Dec. 2021

SERVICE

Ad hoc reviewer: *Cognitive Science*