ERIK BROCKBANK

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APPOINTMENTS

Sep. 2023 -
2023
2014
2022
2020
2020
2024-2026
2022
2019
2018-2023

JOURNAL ARTICLES

Brockbank, E., Verma, A., Lloyd, H., Huey, H., Padilla, L., & Fan, J. E. (2025). Evaluating convergence between two data visualization literacy assessments. *Cognitive Research: Principles and Implications*.

Brockbank, E., & Vul, E. (2024). Repeated rock, paper, scissors play reveals limits in adaptive sequential behavior. *Cognitive Psychology*.

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

- Jin, E., Huang, Z., Fränken, J. P., Liu, W., Cha, H., **Brockbank, E.**, Wu, S., Zhang, R., Wu, J., & Gerstenberg, T. (2024). MARPLE: A Benchmark for Long-Horizon Inference. In *NeurIPS Datasets & Benchmarks Track*.
- *Brockbank, E., *Yang, J., Govil, M., Fan, J. E., & Gerstenberg, T. (2024). Without his cookies, he's just a monster: A counterfactual simulation model of social explanation. In *Proceedings of the 46th Annual Conference of the Cognitive Science Society*.
- *Wu, S., *Brockbank, E., Cha, H., Fränken, J. P., Jin, E., Huang, Z., Liu, W., Zhang, R., Wu, J., & Gerstenberg, T. (2024). Whodunnit? Inferring what happened from multimodal evidence. In *Proceedings of the 46th Annual Conference of the Cognitive Science Society*.
- **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

- Jin, E., Huang, Z., Fränken, J. P., Liu, W., Cha, H., **Brockbank, E.**, Wu, S., Zhang, R., Wu, J., & Gerstenberg, T. (2024). MARPLE: A Benchmark for Long-Horizon Inference. Poster presented at *NeurIPS Datasets & Benchmarks Track*.
- *Brockbank, E., *Yang, J., Govil, M., Fan, J. E., & Gerstenberg, T. (2024). Without his cookies, he's just a monster: A counterfactual simulation model of social explanation. Poster presented at the 46th Annual Conference of the Cognitive Science Society.
- *Wu, S., *Brockbank, E., Cha, H., Fränken, J. P., Jin, E., Huang, Z., Liu, W., Zhang, R., Wu, J., & Gerstenberg, T. (2024). Whodunnit? Inferring what happened from multimodal evidence. Poster presented at the 46th Annual Conference of the Cognitive Science Society.
- *Brockbank, E., *Yang, J., Govil, M., Fan, J. E., & Gerstenberg, T. (2024). Without his cookies, he's just a monster: A counterfactual simulation model of social explanation. Talk presented at the 50th Annual Conference of the Society for Philosophy and Psychology.
- Hurwitz, E., Dean, J., Farrell, B., Mckinty, A., **Brockbank, E.**, Gopnik, A., Walker, C. (2024). A Cognitive Development Model of the Effects of Psychedelics. Poster presented at the *50th Annual Conference of the Society for Philosophy and Psychology*.

Lloyd, H., Tait, Z., **Brockbank, E.**, Liao, S., & Fan, J. (2022). 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). 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). 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). 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). 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). Modeling Adaptive Reasoning in Rock, Paper, Scissors. Poster presented at the *61st Annual Meeting of the Psychonomic Society*.

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

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

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

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

INVITED TALKS

2023, December. Stanford Social and Language Technology Reading Group

2022, October. Naval Research Laboratory "Reasoning Lunch Series"

TEACHING

Instructor of Record Data & Model Programming for Comp. Social Science	MarJun. 2022
Teaching Assistant Research Methods in Psychology	JanMar. 2023
Teaching Assistant Research Methods in Psychology	SepDec. 2022
Teaching Assistant Research Methods in Psychology	SepDec. 2021
Teaching Assistant Computational Social Science Foundations (python)	AugSep. 2021
Teaching Assistant Psychology: Cognitive Foundations	MarJun. 2021
Teaching Assistant Introduction to Psychology	SepDec. 2020
Teaching Assistant Psychology of Parenting	MarJun. 2020
Teaching Assistant Introduction to Psychology	SepDec. 2019
Teaching Assistant Industrial & Organizational Psychology	JulAug. 2019
Teaching Assistant Developmental Psychology	JanMar. 2019

MENTORSHIP

Mishika Govil (Stanford Undergraduate Researcher)	Nov. 2023-
Alison Yu (UCSD Undergraduate Researcher)	Apr. 2021-Mar. 2023
MJ Mei (UCSD Undergraduate Researcher)	Apr. 2021-Mar. 2023
Ziling Gong (UCSD Undergraduate Researcher)	Apr. 2021-Mar. 2023
Annalea O'Halloran (UCSD Undergraduate Researcher)	Apr. 2021-Dec. 2021

LEADERSHIP & OUTREACH

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

PROFESSIONAL SERVICE

Ad hoc reviewer: Cognitive Science, Journal of Experimental Psychology: Learning, Memory, and Cognition, Thinking & Reasoning, Annual Meeting of the Cognitive Science Society, Annual Meeting of the Society for Philosophy and Psychology