

LAUREN A. OEY

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EMPLOYMENT

Netflix, Machine Learning Scientist	2024-Present
Princeton University, Postdoctoral Research Associate	2023-2024

EDUCATION

University of California, San Diego Ph.D. in Experimental Psychology GPA: 4.0	2018-2023
University of Rochester B.S. in Brain and Cognitive Sciences, Highest Distinction & Honors in Research B.A. in Statistics & Linguistics (triple major); Minor in Computer Science Magna cum laude (GPA: 3.85)	2014-2018

FELLOWSHIPS & AWARDS

ACM SIGHPC Computational & Data Science Fellowship	2021-2023
Diverse Intelligences Summer Institute Fellowship, Templeton World Charity Fund	2021
Computational Modeling Prize in Applied Cognition, Cognitive Science Society	2020
William James Prize Honorable Mention (2 nd best paper), Society for Philosophy and Psychology	2019
Norman Anderson Travel and Research Fund Award (x3), UCSD Psychology	2019, 2021, 2022
NSF Graduate Research Fellowship	2018-2023
Norman Henry Anderson Graduate Fellowship, UCSD Psychology	2018-2019
Real World Communication Student Travel Award	2018
Competitive EDGE Fellowship, UCSD	2018
Phi Beta Kappa	2018
President's Award (best talk), UofR, Undergrad Research Exposition (Social Sciences)	2018
Conference Travel Funding Award (x2), University of Rochester	2017, 2018
CSLI Summer Internship Program, Stanford University	2017
Meliora Alumni Scholarship, University of Rochester	2014-2018

PUBLICATIONS

Oey, L. A. & Vul, E. (2023). Accurate approximations about the truth from literally false messages. *Computational Brain & Behavior*.

Oey, L. A., Schachner, A., & Vul, E. (2023). Designing and detecting lies by reasoning about other agents. *Journal of Experimental Psychology: General*, 152(2), 346-362.

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*, 13(2), 399-413.

REFEREED CONFERENCE PROCEEDINGS

- Huey, H.*, **Oey, L. A.***, Lloyd, H. S. & Fan, J. E. (2023). How do communicative goals guide which data visualizations people think are effective? In M. Goldwater, F. K. Anggoro, B. K. Hayes, & D. C. Ong (Eds.), *Proceedings of the 45th Annual Meeting of the Cognitive Science Society* (pp. 2229-2236).
- Oey, L. A.** & Vul, E. (2022). Inferring truth from lies. In J. Culbertson, A. Perfors, H. Rabagliati, & V. Ramenzoni (Eds.), *Proceedings of the 44th Annual Meeting of the Cognitive Science Society* (pp. 1469-1475).
- Oey, L. A.** & Vul, E. (2021). Lies are crafted to the audience. In T. Fitch, C. Lamm, H. Leder, & K. Teßmar-Raible (Eds.), *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society* (pp. 791-797).
- Oey, L.***, DeStefano, I.*, Brockbank, E., & Vul, E. (2020). Formalizing interdisciplinary collaboration in the CogSci community. In S. Denison, M. L. Mack, Y. Xu, & B. C. Armstrong (Eds.), *Proceedings of the 42nd Annual Meeting of the Cognitive Science Society* (pp. 474-480).
- Oey, L. A.**, Schachner, A., & Vul, E. (2019). Designing good deception: Recursive theory of mind in lying and lie detection. In A. K. Goel, C. M. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Meeting of the Cognitive Science Society* (pp. 897-903). Montreal, QB: Cognitive Science Society.
- Oey, L. A.**, Mollica, F., & Piantadosi, S. T. (2018). Adults use gradient similarity information in compositional rules. In T. T. Rogers, M. Rau, X. Zhu, & C. W. Kalish (Eds.), *Proceedings of the 40th Annual Meeting of the Cognitive Science Society* (pp. 842-847). Austin, TX: Cognitive Science Society.

POSTERS & PRESENTATIONS

- Huey, H.*, **Oey, L. A.***, Lloyd, H. S., & Fan, J. E. (2023, July). How do communicative goals guide which data visualizations people think are effective? Poster presented at the 45th Annual Meeting of the Cognitive Science Society, Sydney, Australia.
- Huey, H., **Oey, L. A.**, Lloyd, H. S., & Fan, J. E. (2023, May). How do people decide which graphs will be informative? Poster presented at 2023 VSS Annual Meeting.
- Oey, L. A.** & Vul, E. (2022, July). Inferring truth from lies. Poster presented at the 44th Annual Meeting of the Cognitive Science Society, Toronto, Ontario, Canada.
- Oey, L. A.** & Vul, E. (2021, July). Lies are crafted to the audience. Talk presented at the 43rd Annual Meeting of the Cognitive Science Society, Virtual.
- Oey, L.***, DeStefano, I.*, Brockbank, E., & Vul, E. (2020, July). Formalizing interdisciplinary collaboration in the CogSci community. Talk presented at the 42nd Annual Meeting of the Cognitive Science Society, Virtual.
- Oey, L. A.**, Schachner, A., & Vul, E. (2019, July). Designing good deception: Recursive theory of mind in lying and lie detection. Talk presented at the 41st Annual Meeting of the Cognitive Science Society, Montreal, Quebec, Canada.
- Oey, L. A.**, Schachner, A., & Vul, E. (2019, July). Recursive theory-of-mind in the design of deception: A rational model of lying and lie detection. Talk presented at the 45th Annual Meeting of the Society for Philosophy and Psychology, San Diego, CA.
- Oey, L. A.**, Mollica, F., & Piantadosi, S. T. (2018, July). Adults use gradient similarity information in compositional rules. Talk presented at the 40th Annual Meeting of the Cognitive Science Society, Madison, WI.
- Oey, L. A.**, Mollica, F., & Piantadosi, S. T. (2018, April). Concepts are like rules but gradient: Preserving gradience in a logical model of mental representation. Talk presented at the University of Rochester 2018 Undergraduate Research Exposition, Rochester, NY.
- Oey, L. A.**, Mollica, F., & Piantadosi, S. T. (2018, April). Like a horse but striped: Combining similarity and rules in conceptual representation. Talk presented at the 32nd Annual National Conference on Undergraduate Research, Oklahoma City, OK.
- Oey, L.**, Lee, C., Simon, E., Xie, X., & Jaeger, T. F. (2017, September). Talker generalization of accent adaptation: Questioning its robustness. Poster presented at the 23rd Annual Architectures and Mechanisms of Language Processing (AMLaP) Conference, Lancaster, UK.

- Lee, C., **Oey, L.**, Simon, E., Xie, X., & Jaeger, T. F. (2017, September). An investigation into audio perception studies on Amazon Mechanical Turk. Poster presented at the 23rd Annual Architectures and Mechanisms of Language Processing (AMLaP) Conference, Lancaster, UK.
- Oey, L.**, Schulman, A., Tessler, M. H., & Goodman, N. D. (2017, August). Communicating generalizations in web-based dyadic games. Talk presented at the conclusion of the 4th Annual Center for the Study of Language and Information (CSLI) Summer Internship Program, Stanford, CA.
- Lee, C.*, **Oey, L.***, Simon, E.*, Xie, X., & Jaeger, T. F. (2017, April). How we comprehend foreign-accented speech: Learning to generalize across talkers. Poster presented at the University of Rochester 2017 Undergraduate Research Exposition, Rochester, NY.
- Oey, L.**, Lee, C., Simon, E., Xie, X., & Jaeger, T. F. (2017, April). Generalized adaptation to novel foreign accents. Poster accepted at the 31st Annual National Conference on Undergraduate Research (NCUR), Memphis, TN.

INVITED TALKS

Loopholes: Spirit-vs-Letter of the Law at the Dawn of AI, Harvard Radcliffe Institute (invited, did not attend)	<i>2024</i>
Emerging Scholars of Psychological Science Graduate Student Talk Series, Princeton	<i>2022</i>
Computational Cognitive Science Lab, Princeton	<i>2022</i>
Computational Psycholinguistics Lab, MIT	<i>2022</i>
Computational Social Cognition Lab, Yale	<i>2022</i>

TEACHING EXPERIENCES

Teaching Assistant , PSYC 172 Psychology of Human Sexuality, UCSD	<i>Spring 2022</i>
Teaching Assistant , PSYC 4 General Psychology: Behavioral Foundations, UCSD	<i>Winter 2022</i>
Teaching Assistant , PSYC 201A Quantitative Methods in Psychology (Graduate Course), UCSD	<i>Fall 2020</i>
Guest Lecturer , PSYC 187 Social Cognitive Development, UCSD	<i>Winter 2019, 2020</i>
Teaching Assistant , PSYC 105 Cognitive Psychology, UCSD	<i>Winter, Fall 2019</i>
Teaching Assistant , LIN 250 Data Science for Linguistics (Co-listed Graduate Course), UofR	<i>Spring 2018</i>
Teaching Assistant , STT 213 Elements of Probability and Mathematical Statistics, UofR	<i>Fall 2017</i>
Peer Leader , LIN 210 Introduction to Language Sound Systems, UofR	<i>Fall 2017</i>
Lab Teaching Assistant , CSC 172 Data Structures and Algorithms, UofR	<i>Spring 2017</i>
Teaching Assistant , STT 212 Applied Stats for Biological & Physical Sciences I, UofR	<i>Spring, Fall 2016</i>

ADVISING

Computational Cognition Lab

Xiangyu (Alaric) Wei (UCSD, 2018-2020; now Ph.D. student at Harvard Psych), Rongrong Liu (UCSD, 2019-2020; now Masters student at Stanford CS)

Mind and Development Lab

Azriel Williams (University of Virgin Islands, 2019), Angela Nagtalon (UCSD, 2019-2020), Vivian Du (UCSD, 2019-2021), Jessica Orford (UCSD, 2020-2021; now research coordinator at Stanford Cancer Institute), Jason Tran (UCSD, 2021-2022), Diana Wang (UCSD, 2021-2022; senior honors thesis)

WORKSHOPS

AI Safety Fundamentals Course

Virtual

BlueDot Impact

Spring 2024

Scaling Cognitive Science Workshop
Princeton University

Princeton, NJ
December 2019

DGfS Summer School - Experimental Pragmatics: Theory, Methods, Interfaces
Humboldt University of Berlin

Berlin, Germany
August 2019

Summer Workshop in Cognitive and Brain Sciences
University of Delaware

Newark, DE
June 2017

PREVIOUS RESEARCH EXPERIENCES

Computation and Language Lab, University of Rochester
Undergraduate Honors Thesis
Advisors: Steven Piantadosi (Frank Mollica)

2017-2018

Human Language Processing Lab, University of Rochester
Independent Research Project, Undergraduate Research Assistant
Advisors: Florian Jaeger (Xin Xie, Linda Liu)

2015-2018

Rochester Baby Lab, SEEDLingS Project, University of Rochester
Undergraduate Research Assistant
Advisor: Erika Bergelson

Summer 2016

SERVICE

Graduate Funding Reform Committee, *Grad Student Representative, UCSD Psychology*

2020

Extramural Funds Officer, *Graduate Officer, UCSD Psychology*

2019-2022

Colloquium Representative, *Graduate Officer, UCSD Psychology*

2019-2020

STARS Program, *Mentor, UCSD*

Summer 2019

Graduate Talk Series Representative, *Graduate Officer, UCSD Psychology*

2019

BCS & Neuroscience Undergraduate Council, *Undergraduate Mentor, University of Rochester*

2017-2018

AD-HOC REVIEWING

Journal(s): Cognition, Open Mind

Conference(s): Cognitive Science Society, Society for Philosophy and Psychology

Workshop(s): Meaning in Context @ NeurIPS 2021

SKILLS

Programming Languages: Python, R, SQL, JavaScript, Java

Software: Git, Praat

Other: HTML, CSS, LaTeX, Markdown, Unix, Mechanical Turk