

# LAUREN A. OEY

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## EDUCATION & ACADEMIC APPOINTMENTS

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

## FELLOWSHIPS & AWARDS

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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 <sup>nd</sup> 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

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- Oey, L. A. & Vul, E. (in press). Accurate approximations about the truth from literally false messages. *Computation 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

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- 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

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- 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

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Loopholes: Spirit-vs-Letter of the Law at the Dawn of AI, Harvard Radcliffe Institute for Advanced Studies	2024
Emerging Scholars of Psychological Science Graduate Student Talk Series, Princeton	2022
Computational Cognitive Science Lab, Princeton	2022
Computational Psycholinguistics Lab, MIT	2022
Computational Social Cognition Lab, Yale	2022

## TEACHING EXPERIENCES

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

## 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

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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

## PREVIOUS RESEARCH EXPERIENCES

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<b>Computation and Language Lab</b> , University of Rochester <i>Undergraduate Honors Thesis</i> Advisors: Steven Piantadosi (Frank Mollica)	2017-2018
<b>Human Language Processing Lab</b> , University of Rochester <i>Independent Research Project, Undergraduate Research Assistant</i> Advisors: Florian Jaeger (Xin Xie, Linda Liu)	2015-2018
<b>Rochester Baby Lab, SEEDLingS Project</b> , University of Rochester <i>Undergraduate Research Assistant</i> Advisor: Erika Bergelson	Summer 2016

## SERVICE

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<b>Graduate Funding Reform Committee</b> , <i>Grad Student Representative, UCSD Psychology</i>	2020
<b>Extramural Funds Officer</b> , <i>Graduate Officer, UCSD Psychology</i>	2019-2022
<b>Colloquium Representative</b> , <i>Graduate Officer, UCSD Psychology</i>	2019-2020
<b>STARS Program</b> , <i>Mentor, UCSD</i>	Summer 2019
<b>Graduate Talk Series Representative</b> , <i>Graduate Officer, UCSD Psychology</i>	2019
<b>BCS &amp; Neuroscience Undergraduate Council</b> , <i>Undergraduate Mentor, University of Rochester</i>	2017-2018

## AD-HOC REVIEWING

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**Journal(s):** Cognition, Open Mind

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

**Workshop(s):** Meaning in Context @ NeurIPS 2021

## SKILLS

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

**Software:** Git, Praat

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

## REFERENCES

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**Natalia Vélez:** nvelez@princeton.edu

**Edward Vul:** evul@ucsd.edu

**Judith Fan:** jefan@ucsd.edu