

## EDUCATION

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<b>New York University</b> Ph.D. in Psychology (Cognition and Perception)	New York, NY 2024–now
<b>University of California, Irvine</b> Ph.D. Program in Language Science Ph.D. Program in Logic and Philosophy of Science	Irvine, CA 2023–2024 2022–2023
<b>University of Washington</b> M.S. in Computational Linguistics	Seattle, WA 2020–2022
<b>University of California, San Diego</b> B.A. in Philosophy	La Jolla, CA 2016–2020

## EXPERIENCE

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<b>Posh Technologies</b> NLP Research Intern	Boston, MA Summer 2021
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## PEER REVIEWED JOURNAL PUBLICATIONS

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1. Steinert-Threlkeld, S., Imel, N. & Guo, Q. A semantic universal for modality. *Semantics and Pragmatics*. <https://doi.org/10.3765/sp.16.1> (2023).

## CONFERENCE PROCEEDINGS AND WORKSHOP PAPERS

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2. Imel, N. & Zaslavsky, N. Optimal compression in human concept learning. in *Proceedings of the 46th Annual Meeting of the Cognitive Science Society* (2024).
3. Imel, N. & Hafen, Z. Citation-similarity relationships in astrophysics. in *AI for Scientific Discovery: From Theory to Practice Workshop (AI4Science @ NeurIPS)* (2023).
4. Imel, N., Futrell, R., Franke, M. & Zaslavsky, N. Noisy population dynamics lead to efficiently compressed semantic systems. in *NeurIPS Workshop on Information-Theoretic Principles in Cognitive Systems Workshop (InfoCog @ NeurIPS)* (2023).
5. Imel, N. The evolution of efficient compression in signaling games. in *Proceedings of the 45th Annual Meeting of the Cognitive Science Society* (2023).
6. Imel, N. & Steinert-Threlkeld, S. Modals in natural language optimize the simplicity/informativeness trade-off. in *Proceedings of Semantics and Linguistic Theory (SALT 32)* (2022).
7. Guo, Q., Imel, N. & Steinert-Threlkeld, S. A Database for Modal Semantic Typology. in *Proceedings of the 4th Workshop on Research in Computational Linguistic Typology and Multilingual NLP* (Association for Computational Linguistics, Seattle, Washington, July 2022).

## PREPRINTS

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8. Imel, N., Guo, Q. & Steinert-Threlkeld, S. An efficient communication analysis of modal typology. <https://ling.auf.net/lingbuzz/007392> (2023).
9. Uegaki, W., Mucha, A., Imel, N. & Steinert-Threlkeld, S. Deontic priority in the lexicalization of impossibility modals. <https://psyarxiv.com/h63y9/> (2023).

## TALKS AND PRESENTATIONS

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### **Optimal compression in human concept learning**

Cogsci 2024 (Rotterdam, NL)

7/24/24

### **Citation-similarity relationships in astrophysics literature**

Santa Fe Institute Workshop on Intelligence and Representation (Cambridge, UK)

8/18/23

### **Modals in natural language optimize the simplicity/informativeness trade-off**

Semantics and Linguistic Theory (Mexico City, CDMX)

6/08/22

Experiments in Linguistic Meaning (Philadelphia, PA)

5/18/22

### **Noisy population dynamics lead to efficiently compressed semantic systems**

University of Tübingen Linguistics Colloquium (virtual)

7/04/23

MIT Computational Psycholinguistics Lab (Cambridge, MA)

10/17/23

Evolang 2024 (Madison)

5/19/24

## SOFTWARE

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### **The unnatural language toolkit (ULTK)**

With Shane Steinert-Threlkeld, Chris Haberland, and Mickey Shi. ([link](#)).

### **Sciterra: a library for topographic analyses of scientific literature**

With Zachary Hafen. ([link](#)).

## AWARDS

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Santa Fe Institute Complexity GAINs Summer Fellowship

2023

North American Summer School for Logic, Language and Information Student Fellowship (USC)

2023

Merit Fellowships (UC Irvine School of Social Sciences)

2022

Accepted to Summer School in Logic and Formal Epistemology (CMU)

2021

Best paper “Desire Semantics”, selected for UC San Diego undergraduate philosophy journal *Intuitions*

2020

## TEACHING

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- Introduction to Syntax (LSCI 20) Winter, Spring 2024
- Introduction to Linguistics (LSCI 3) Fall 2023
- Basic Economics I (ECON 20A) Spring 2023
- Introduction to Symbolic Logic (LPS 30) Winter 2023

## SERVICE

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- Ad-hoc reviewing: InfoCog Workshop @ Neurips, EvoLang, California Annual Meeting of Psycholinguistics 2023
- Department Colloquium Committee 2023
- Organizing Committee for Society for Computation in Linguistics Conference 2023