

## EDUCATION

---

<b>University of California, Irvine</b> Ph.D. in Language Science Ph.D. Program in Logic and Philosophy of Science	Irvine, CA 2023–now 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
<b>Summer Programs</b> Santa Fe Institute International Summer School (Complexity-GAINS) North American Summer School for Logic, Language and Information (NASSLLI) Summer School in Logic and Formal Epistemology (LFE)	Cambridge, 2023 USC, 2022 CMU, 2021

## PUBLICATIONS

---

- [1] **N. Imel**, The evolution of efficient compression in signaling games, in *Proceedings of the 45th Annual Meeting of the Cognitive Science Society*, 2023.
- [2] Q. Guo, **N. Imel**, and S. Steinert-Threlkeld, A database for modal semantic typology, in *Proceedings of the 4th Workshop on Research in Computational Linguistic Typology and Multilingual NLP*, Seattle, Washington: Association for Computational Linguistics, Jul. 2022, pp. 42–51.
- [3] **N. Imel** and S. Steinert-Threlkeld, Modals in natural language optimize the simplicity/informativeness trade-off, in *Proceedings of Semantics and Linguistic Theory (SALT 32)*, 2022.

## TALKS AND PRESENTATIONS

---

<b>Modals in natural language optimize the simplicity/informativeness trade-off</b> Semantics and Linguistic Theory (Mexico City) Experiments in Linguistic Meaning (Philadelphia )	6/08/22 5/18/22
<b>The evolution of efficient compression in signaling games</b> University of Tübingen Linguistics Colloquium (virtual) CogSci 2023 (Sidney, virtual)	7/04/23 7/26/23

## WORKS IN PROGRESS

---

**Citation-similarity relationships in astrophysics literature**  
With Zachary Hafen. (submitted)

**Noisy population dynamics lead to efficiently compressed semantic systems**  
With Noga Zaslavsky, Michael Franke and Richard Futrell. (submitted)

## **An efficient communication analysis of modal typology**

With Qingxia Guo and Shane Steinert-Threlkeld. ([link](#))

## **Deontic priority in the lexicalization of impossibility modals**

With Anne Mucha, Wataru Uegaki, and Shane Steinert-Threlkeld. ([link](#)).

## **The artificial language toolkit (ALTK)**

With Shane Steinert-Threlkeld. ([link](#)).

## AWARDS

---

Merit Fellowships (UC Irvine School of Social Sciences)	2022
Best paper “Desire Semantics”, selected for UC San Diego undergraduate philosophy journal <i>Intuitions</i>	2020

## TEACHING

---

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

## SELECTED GRADUATE COURSEWORK

---

Experimental Methods	Xin Xie
Computability Theory and Incompleteness	Toby Meadows
Game Theory in the Philosophy of Biology	Cailin O’Connor
Information Theory and Language	Richard Futrell
Mathematical Logic	Kai Wehmeier
Set Theory	Toby Meadows
Social Dynamics	Brian Skyrms and Simon Huttegger
Philosophy of Science Foundations	Kyle Stanford
Deep Learning for NLP	Shane Steinert-Threlkeld
Machine Learning	Sewoong Oh and Simon Du
Advanced Statistical Methods for NLP	Fei Xia
NLP Systems and Applications	Gina Anne-Levow
Deep Processing Techniques For NLP	Shane Steinert-Threlkeld
Shallow Processing Techniques For NLP	Fei Xia
Multilingual Grammar Engineering	Emily Bender
Syntax for Computational Linguistics	Emily Bender
Formal Semantics II	Toshiyuki Ogihara
Phonetics	Marina Oganyan

## EXPERIENCE

---

<b>Posh Technologies</b>	Boston, MA
NLP Research Intern	Summer 2021
Performed error analysis experiments of chatbot and presented results to NLP team; wrote unit tests for intent-classification software; curated large datasets and pipelines for ML model evalutaion	