

Emily Goodwin

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Research Interests

Lexical semantics and sentence production
Computational linguistics and psycholinguistics
Compositional generalization, interpretability

Technical Skills

Data Analysis & Visualization: R, tidyverse, lme4, brms
Machine Learning: Python, scikit-learn, Numpy, Pandas
Other Tools: Git, Docker

EDUCATION

Stanford University

Sep '22 - Present

PhD, Linguistics

McGill University

M.A. Linguistics

Thesis: Compositionality in Syntactic and Semantic Parsing

May '21

B.A. Linguistics Honors

Thesis: Systematicity and Compositionality in Semantic Representation

Dec '18

B.A. Minor Cognitive Science

Dec '18

Relevant coursework

Neural Networks and Natural Language
Natural Language Understanding with Deep Learning
Natural Language Processing

Teaching Experience

Psycholinguistic Methods (Teaching Assistant)
Introduction to Semantics (Teaching Assistant)
Neural Networks & Language (RA; Prepared course materials)

SELECTED RESEARCH EXPERIENCE

Stanford University Department of Linguistics

Sep '22 - Present

Doctoral Student Researcher

- Designed & implemented 6 online audio & behavior psycholinguistic studies, totaling thousands of participants
- Wrote these experiments in React & JsPsych; analysis in R (tidyverse, brms, lme4); hosted on Github and AWS
- Mentored an undergraduate research intern in experiment design, research tools, data visualization, and analysis
- Trained and led a 10-person linguistic annotation team, creating the largest public dataset of dative structures
- Published to CogSci 2024 & 2025; presented at Xprag 2024 & 2025, CAMP 2024 & 2025 and HSP 2025

ElementAI - Fundamental Research Group, Montréal

May '20 - Jan '21

Research Intern

- Designed compositional generalization benchmark for syntactic dependency parsing
- Implemented this project in Python, published dataset & associated ACL paper Goodwin et al., 2022
- Identified the linguistic constructions responsible for >30% of parser errors

SELECTED PEER-REVIEWED PUBLICATIONS

For a full list of publications, see emilygoodwin.github.io

Syntactic Choice Is Shaped by Fine-Grained, Item-Specific Knowledge - Goodwin, E., Levin, B. & Morgan, E.
Proceedings of the 47th Annual Conference of the Cognitive Science Society (2025)

Compositional Generalization in Dependency Parsing - Goodwin, E., Reddy, S., O'Donnell, T. J. & Bahdanau, D.
Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (2022)

Probing Linguistic Systematicity - Goodwin, E., Sinha, K. & O'Donnell, T. J.
Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (2020)