Sasha Boguraev

Ph.D. Student at UT Austin

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Education

2024 – Now	**Ph.D in Computational Linguistics, Minor in Computer Science**, *The University of Texas at Austin*, Austin, TX Advisor: Prof. Kyle Mahowald
2020 – 2024	**B.A in Computer Science, Mathematics, Computational Cognitive Science**, *Cornell University College of Arts and Sciences*, Ithaca, NY Summa Cum Laude Honors

Publications

Pre-Print	**Sasha Boguraev**, Christopher Potts, Kyle Mahowald. 2025. Causal Interventions Reveal Shared Structure Across English Filler-Gap Constructions. *Preprint – In Review*.
CogSci '25	**Boguraev, S.**, Erk, K. E, Mahowald, K., Shearer, J., & Wechsler, S. M. 2025. Reinforcement learning produces efficient case-marking systems. *Proceedings of the Annual Meeting of the Cognitive Science Society, 47.*
Workshop @ NeurIPS '24.	**Sasha Boguraev**, Ben Lipkin, Leonie Weissweiler, Kyle Mahowald. 2024. Models Can and Should Embrace the Communicative Nature of Human-Generated Math. 4th MATH-AI Workshop at NeurIPS'24.

For full list of publications (including those unrelated to Comp. Ling.) see Google Scholar

Undergraduate Honors Thesis

"What Do You Mean By That?" – Idiolects, Casual Miscommunication, and the Evolutionary Fitness of Languages

Supervisors	Prof. Morten Christiansen (Chair), Prof. Veit Elser, and Prof. Eugene Vinitsky (NYU)
Description	Simulated idiolect development in populations of agents using Multi-Agent Reinforcement Learning. Found idiolects shape languages to be robust to external communication failures.

Industry Experience

Summer 2023	**Summer Undergraduate Research Fellow**, *NASA*, Jet Propulsion Laboratory (JPL), La Cañada Flintridge, California ○ Prototyping Information Retrieval and Retrieval-Augmented Generation (RAG) systems ○ Received return offer for Spring 2024

Service

2025	Reviewer for INTERPLAY Workshop at Conference of Language Modeling (COLM)
2025	Graduate Student Representative on Search Committee for Assistant Professor in Computational Linguistics. Department of Linguistics, UT Austin.

Teaching Experience

Cornell University

CS 4740   **Natural Language Processing**, *Undergraduate Teaching Assistant*, Fall 2023
Instructor: Prof. Lillian Lee

Awards and Fellowships

Spring 2024   Cornell Arts and Sciences Extraordinary Senior
Fall 2023   Cornell Computer Science Course Staff Exceptional Service Award
Summer 2023   California Institute of Technology Summer Undergraduate Research Fellowship
Fall 2021   Robert S. Harrison College Scholar