## Shiva Upadhye

Contact Information	Email: shiva.upadhye@uci.edu
Education	University of California, Irvine2026Ph.D. in Language Science (Cognitive Psychology & Psycholinguistics)2026Advisor: Dr. Richard FutrellResearch interests: Computational Psycholinguistics; Cognitive Modeling; Language Production; LLM interpretability;
	University of California, San Diego2020B.S. in Cognitive Science, Machine Learning & Neural Computation2020Minor: Mathematics2020
Publications	<b>Upadhye S.</b> & Futrell, R. (2025). Examining Future Context Predictability Effects in Word-form Variation and Word Choice. <i>The Proceedings of the 47th Annual Meeting of the Cognitive Science Society.</i> (to appear)
	<b>Upadhye S.</b> ,* Li J.,* & Futrell, R. (2025). SPACER: A Parallel Dataset of Speech Production And Comprehension of Error Repairs. <i>The 14th edition of the Workshop</i> on Cognitive Modeling and Computational Linguistics.
	<b>Upadhye S.</b> & Futrell, R. (2023). Typing time PWI: A scalable paradigm for studying lexical production. <i>Proceedings of the 45th Annual Meeting of the Cognitive Science Society.</i>
	<b>Upadhye S.</b> , Bergen L., & Kehler, A (2020). Predicting Reference: What do Language Models learn about Discourse Models? <i>Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing.</i>
Conference Presentations	<b>Upadhye S.</b> & Futrell, R. (2025). Examining Future Context Predictability Effects in Word-form Variation and Word Choice (2025). 47th Annual Meeting of the Cognitive Science Society. San Francisco, CA, USA. Upcoming. (Talk)
	<b>Upadhye S.</b> , Yeaton, JD., Yi, E., & Hickok, G. (2025). Typing Fluency reveals Psycholinguistic Dynamics of Sentence Production. <i>The 38th Annual Conference on</i> <i>Human Sentence Processing</i> . College Park, MD, USA. ( <b>Poster</b> )
	<b>Upadhye S.</b> *, Li J.* & Futrell, R. (2025). SPACER: A Parallel Dataset of Speech Production And Comprehension of Error Repairs. <i>The 38th Annual Conference on</i> <i>Human Sentence Processing.</i> College Park, MD, USA. ( <b>Poster</b> )
	Li Y., Li J., <b>Upadhye S.</b> , & Scontras, G. (2025). Language models prefer ambiguous utterances following informative contexts. <i>The 38th Annual Conference on Human Sentence Processing.</i> College Park, MD, USA. ( <b>Poster</b> )
	Yeaton, JD, <b>Upadhye, S.</b> , Futrell, R., & Hickok, G. (2024). The (Non-)Sentence Repetition Task: A novel assessment of expressive and receptive syntactic compe- tence. 16th Annual Meeting of the Society for the Neurobiology of Language. Bris- bane, Australia. ( <b>Poster</b> )

	<b>Upadhye S.</b> , Attali N. & Scontras, G. (2023). The role of world knowledge for interpreting aspect ambiguity. <i>Tenth Biennial Meeting of Experimental Pragmatics</i> . Paris, France. ( <b>Poster</b> )
	<b>Upadhye S.*</b> , Li, J.* & Futrell, R. (2023). Bridging production and comprehension: Toward an integrated computational model of error correction. <i>Society for Computation in Linguistics (SCiL 2023).</i> Amherst, MA, USA. ( <b>Poster</b> ).
	Li, J.*, <b>Upadhye, S.</b> * & Futrell, R. (2023) Bridging production and comprehension: A computational model of error generation and correction. <i>The 36th Annual Conference on Human Sentence Processing</i> . Pittsburgh, PA, USA. ( <b>Poster</b> )
	<b>Upadhye S.</b> & Futrell R. (2022). Information-theoretic analysis of disfluencies in speech. <i>NeurIPS 2022 Workshop on Information Theoretic Principles in Cognitive Systems</i> . New Orleans, LA, USA. ( <b>Poster</b> )
Pedagogy &	UC IRVINE
Mentorship	Instructor 2025
	Introduction to Linguistics (upcoming)
	Graduate Mentor 2024 - Current Undergraduate Research Opportunities Program (UROP) Fellowship
	Mentee: Mackenzie Leigh Maxwell (Awarded fellowship & funding)
	Teaching Assistant2022 - Current
	Introduction to Linguistics, Research methods in Psychology,
	Psychology of Language, Public Policy DTEI Graduate Summer Fellow 2022
	Fellowship awarded by the Division of Teaching Excellence and Innovation (DTEI) for development and improvement of hybrid pedagogy.
	UC SAN DIEGO Instructional Assistant in Computational Linguistics 2020
Service and	Dramon Chain and Organizan
Awards	Program Chair and Organizer Society for Computation in Linguistics (2024)
	Reviewer ()
	Society for Computation in Linguistics (2024)
	California Meeting on Psycholinguistics (2023-2024) SoCal NLP (2022)
	Awards
	Graduate Dean's Fellowship, University of California, Irvine
	Human Sentence Processing Honorarium (2023, 2025)
	NeurIPS InfoCog Honorarium (2022) Invited Talk
	"Information-Theoretic Planning Effects in Online Language Production" at the Language Production Lab (UC San Diego)
Other	AI/Data Analytics Engineer Oct 2020 - July 2021
Experience	Intelligent Fiber Optic Systems Corporation
	Computational Neurosciences Intern Oct 2019 - Jan 2020 National Center for Microscopy and Imaging Research
Skills	<b>Programming and Software</b> : Python, R, MATLAB, Clojure, Julia, SQL, STAN, Gym, PCIbex, PsychoPy