Venkata S Govindarajan

HE/HIM/HIS

DEPARTMENT OF LINGUISTICS,

THE UNIVERSITY OF TEXAS AT AUSTIN

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EDUCATION

University of Texas at Austin 2019–2024
PhD Computational Linguistics GPA:3.9/4

University of Rochester 2017–2019
MS Computational Linguistics GPA:3.75/4
Thesis: Decomposing Generalization | Advisor: Prof.Aaron Steven White

Indian Institute of Technology Madras 2012–2017
Dual Degree(B.Tech & M.Tech) Biological Engineering GPA:8.68/10

RESEARCH INTERESTS

Computational Pragmatics, Computational Social Science, Natural Language Processing

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WORK EXPERIENCE

Amazon – Alexa Applied Scientist Intern Summer 2021
Natural Language Processing & Understanding VIRTUAL
Implemented an unsupervised method for detecting data drift in NLU models, and validated the approach on simulated and real-world drift. Received return internship offer for summer 2022.

PAPERS

Govindarajan, V. S., K. Atwell, B. Sinno, M. Alikhani, D. I. Beaver & J. J. Li. 2022. Dimensions of Interpersonal Dynamics in Text: Group Membership and Fine-grained Interpersonal Emotion. *arXiv preprint*.

Kovatchev, V., T. Chatterjee, **V. S. Govindarajan**, J. Chen, et al. 2022. longhorns at DADC 2022: How many linguists does it take to fool a Question Answering model? A systematic approach to adversarial attacks. In *Proceedings of the First Workshop on Dynamic Adversarial Data Collection*, 41–52. Seattle, WA: Association for Computational Linguistics.

Govindarajan, **V. S.**, B. T. Chen, R. Warholic, K. Erk & J. J. Li. 2020a. Help! Need Advice on Identifying Advice. In *Proceedings of The 2020 Conference on Empirical Methods in Natural Language Processing*.

White, A. S., E. Stengel-Eskin, S. Vashishtha, **V. S. Govindarajan**, et al. 2020. The Universal Decompositional Semantics Dataset and Decomp Toolkit. In *Proceedings of The 12th Language Resources and Evaluation Conference*, 5698–5707. Marseille, France: European Language Resources Association.

Govindarajan, **V.**, B. V. Durme & A. S. White. 2019. Decomposing Generalization: Models of Generic , Habitual, and Episodic Statements. *Transactions of the Association for Computational Linguistics* 7. 501–517.

TALKS

Govindarajan, **V. S.**, B. T. Chen, R. Warholic, K. Erk & J. J. Li. 2020b. Help! Need Advice on Identifying Advice. Presented at *The 2020 Conference on Empirical Methods in Natural Language Processing*. Virtual. Nov 16-20 2020.

Govindarajan, **V.**, B. V. Durme & A. S. White. 2020. Decomposing Generalization: Models of Generic , Habitual, and Episodic Statements. Presented at *The 58th Annual Meeting of the Association for Computational Linguistics*. Virtual. July 5-10 2020.

TEACHING

Assistant Instructor

Language and Computers	Summer 2022

Teaching Assistant

Machine Learning Toolbox for Text Analysis	Spring 2021
Analyzing Linguistic Data and Programming for Linguists	Spring 2020
Introduction to Computational Linguistics	Fall 2019
Introduction to Computational Linguistics	Fall 2018
Data Structures and Algorithms for Biology	Fall 2016

SKILLS

Programming Languages Python, Swift, Javascript, R, MATLAB, LISP, C, C++

Tools & Frameworks pyTorch, Tensorflow, Keras, Transformers, SciPy, Pandas, nltk, Docker, LaTeX, Jupyter, Unix, SwiftUI, CoreML

Languages English(native), Tamil(native), Hindi(intermediate)

APPS

DeTeXt: I built an open source app for iOS, iPadOS and macOS that predicts the best LaTeX commands corresponding to hand-drawn symbols using deep neural networks. Built using SwiftUI, Combine, PencilKit and CoreML, the app has 4000+ installs.

PROFESSIONAL SERVICE

Co-organizer of Texas South by Semantics Workshop 2022 with Samuel Cantor.
Primary Reviewer at SIGDIAL 2022.
Texas Linguistics Society(TLS) Conference 2022 & 2021 Organizing Committee.

AWARDS

NASSLI Student Grant	Summer 2022
COLA Supplemental Graduate School Fellowship	Spring 2020
Silver medal at International Genetically Engineered Machine (iGEM)	Fall 2016
Indian Biological Engineering Competition (iBEC) grant for INR 1,000,000	Fall 2016
National BIRAC-IdeaThon on Antimicrobial Resistance Finalist	Fall 2016
Second runner up in 3M-CII Young Innovators Challenge	Spring 2015