

Venkata S Govindarajan

HE/HIM
DEPARTMENT OF LINGUISTICS,
THE UNIVERSITY OF TEXAS AT AUSTIN

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EDUCATION

University of Texas at Austin 2019–
PhD Computational Linguistics

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

Indian Institute of Technology Madras 2012–2017
Dual Degree(B.Tech & M.Tech) Biological Engineering
Thesis: Direction Maps in the Whisker Barrel Cortex | Advisor: Prof. Srinivasa Chakravarthy

RESEARCH INTERESTS

Computational Semantics & Pragmatics, Natural Language Processing

WORK EXPERIENCE

Amazon Alexa Applied Scientist Intern Summer 2021
Unsupervised Drift detection – NLP, NLU Virtual
- Implemented an unsupervised method for detecting data drift in NLU models.
- Validated the approach on simulated and real-world drift.

PAPERS

- Govindarajan, V. S., B. T. Chen, R. Warholc, 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 Compositional 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. Warholc, 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.

RESEARCH EXPERIENCE

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| Linguistic Intergroup Bias | 2020- |
| <i>Research Project – Computational Semantics & Pragmatics</i> | UT Austin |
| Advisor: Prof. David Beaver, Prof. Junyi Jessy Li | |
| Advice in Online Forums | 2019-20 |
| <i>Research Project – Computational Semantics & Discourse</i> | UT Austin |
| Advisor: Prof. Junyi Jessy Li | |
| Decomposing Generalization | 2018-19 |
| <i>MS Thesis – Computational Semantics</i> | University of Rochester |
| Advisor: Prof. Aaron Steven White | |

TEACHING

Teaching Assistant

UT Austin

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| Machine Learning Toolbox for Text Analysis | Spring 2021 |
| Analyzing Linguistic Data and Programming for Linguists | Spring 2020 |
| Introduction to Computational Linguistics | Fall 2019 |

University of Rochester

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| Introduction to Computational Linguistics | Fall 2018 |
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IIT Madras

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| Data Structures and Algorithms for Biology | Fall 2016 |
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SKILLS

- Programming Languages** Python, Swift, R, MATLAB, LISP, Javascript, C, C++
- Tools & Frameworks** pyTorch, Tensorflow, Keras, Huggingface Transformers, SciPy, Pandas, nltk, Docker, L^AT_EX, Jupyter, Unix, SwiftUI, Combine, CoreML
- Languages** English(native), Tamil(native), Hindi(intermediate)

APPS

DeTeXt: An open source app for iPhone, iPad and Mac that predicts the best LaTeX commands corresponding to hand-drawn symbols using deep neural networks. Built using SwiftUI, Combine, PencilKit and CoreML.

PROFESSIONAL SERVICE

Texas Linguistics Society(TLS) 2021 Organizing Committee.

AWARDS

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