

# 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

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## RESEARCH INTERESTS

Computational Semantics & Pragmatics, Natural Language Processing

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## 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.

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## 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.

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## 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.

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## RESEARCH EXPERIENCE

Linguistic Intergroup Bias	2020-
<i>Research Project – Computational Semantics &amp; Pragmatics</i>	UT Austin
Advisor: Prof. David Beaver, Prof. Junyi Jessy Li	

Advice in Online Forums	2019-20
<i>Research Project – Computational Semantics &amp; 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	

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## TEACHING

*Teaching Assistant*

### UT Austin

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

Introduction to Computational Linguistics	Fall 2018
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### IIT Madras

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<sup>A</sup>T<sub>E</sub>X, Jupyter, Unix, SwiftUI, Combine, CoreML

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

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## **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.

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## **PROFESSIONAL SERVICE**

Texas Linguistics Society(TLS) 2021 Organizing Committee.

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## **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