

# VENKATA S GOVINDARAJAN

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## EDUCATION

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- University of Texas at Austin** 2019–  
*PhD Computational Linguistics*  
CGPA: 3.73/4
- University of Rochester** 2017–2019  
*MS Computational Linguistics*  
CGPA: 3.75/4
- Indian Institute of Technology Madras** 2012–2017  
*Dual Degree(B.Tech & M.Tech) Biological Engineering*  
CGPA: 8.68/10

## RESEARCH INTERESTS

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Computational Semantics & Pragmatics, Natural Language Processing,  
Philosophy of Language, Cognitive Science & Computational Social Science

## RESEARCH EXPERIENCE

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- Decomposing Generalization** 2018-19  
*MS Thesis - Computational Semantics*  
Advisor: Prof. Aaron Steven White, University of Rochester
- Direction Maps in the Whisker Barrel Cortex** 2016-17  
*M.Tech Thesis - Computational Neuroscience*  
Advisor: Prof. Srinivasa Chakravarthy, IIT Madras

## PAPERS

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

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**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

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### *Teaching Assistant*

Analyzing Linguistic Data and Programming for Linguists	Fall 2019
Introduction to Computational Linguistics	Fall 2019
Introduction to Computational Linguistics	Fall 2018
Data Structures and Algorithms for Biology	Fall 2016

## SKILLS

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

**Tools & Frameworks:** pyTorch, SciPy stack, keras, pandas, Docker, L<sup>A</sup>T<sub>E</sub>X, Jupyter, Unix, nltk, SwiftUI, Combine, CoreML

**Languages:** English(fluent), Tamil(fluent), Hindi(intermediate)

## APPS

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**DeTeXt:** An open source app for iPhones and iPads that predicts the best LaTeX commands corresponding to hand-drawn symbols using deep neural nets. Built using SwiftUI, Combine, PencilKit and CoreML.

## AWARDS

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Silver medal at International Genetically Engineered Machine (iGEM) 2016.

Indian Biological Engineering Competition (iBEC) grant for INR 1,000,000.

National BIRAC-IdeaThon on Antimicrobial Resistance 2016 Finalist.

Second runner up in 3M-CII Young Innovators Challenge 2015.

## COURSEWORK

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Language and Power • Syntax • Formal Semantics • Introduction to Pragmatics • Morphology • Machine Learning • Statistical Speech and Language Processing • Logical Foundations of AI • Natural Language Processing • Principles of Neuroscience • Probability, Statistics and Stochastic Processes • Applied Statistics • Data Structures and Algorithms for Biology • Analysis and Interpretation of Biological Data