




# Saujas Vaduguru

 <https://saujasv.github.io>  
 [svadugur@cs.cmu.edu](mailto:svadugur@cs.cmu.edu)  
 <https://github.com/saujasv>

## Education

- 2022–  
present **Ph.D. in Language and Information Technologies**  
*Language Technologies Institute, School of Computer Science, Carnegie Mellon University*  
ADVISOR: Daniel Fried
- 2017–2022 **B.Tech. in Computer Science and M.S. (by Research) in Computational Linguistics**  
*International Institute of Information Technology (IIIT), Hyderabad*  
ADVISORS: Monojit Choudhury, Dipti Misra Sharma  
THESIS: Program Synthesis for Linguistic Rules

## Former Positions

- 2019–2022 **Research Assistant**, Language Technologies Research Center, IIIT, Hyderabad
- May–Aug  
2021 **Research Intern**, Chandar Research Lab, MILA  
MENTORS: Sarath Chandar, Prasanna Parthasarathi

## Publications

- [6] *Amortizing Pragmatic Program Synthesis with Rankings*  
Yewen Pu, **Saujas Vaduguru**, Priyan Vaithilingam  
*arXiv*
- [5] *Adapting to Gradual Distribution Shifts with Continual Weight Averaging*  
Jared Fernandez, **Saujas Vaduguru**, Sanket Vaibhav Mehta, Yonatan Bisk, Emma Strubell  
To appear at the *Workshop on High-dimensional Learning Dynamics*  
*40th International Conference on Machine Learning*
- [4] *Probing Negation in Language Models*  
Shashwat Singh, Shashwat Goel, **Saujas Vaduguru**, Ponnurangam Kumaraguru  
*8th Workshop on Representation Learning for NLP (RepL4NLP)*  
*61st Annual Meeting of the Association for Computational Linguistics (ACL)*
- [3] *Stress Rules from Surface Forms: Experiments with Program Synthesis*  
**Saujas Vaduguru**, Partho Sarthi, Monojit Choudhury, and Dipti Sharma  
*International Conference on Natural Language Processing (ICON), 2021*
- [2] *Efficient Pragmatic Program Synthesis with Informative Specifications*  
**Saujas Vaduguru**, Kevin Ellis, Yewen Pu  
*Workshop on Meaning in Context: Pragmatic Communication in Humans and Machines*  
*35th Conference on Neural Information Processing Systems (NeurIPS), 2021*  
(oral presentation)

- [1] *Sample-efficient linguistic generalizations through program synthesis: Experiments with phonology problems*  
**Saujas Vaduguru**, Aalok Sathe, Monojit Choudhury, and Dipti Sharma  
*Proceedings of the 18th SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology*  
*The Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (ACL-IJCNLP), 2021*

## Honors and Awards

2021	MITACS Globalink Research Internship
2017–2021	Dean's List Award for Academic Performance
2015	Honourable Mention, International Linguistics Olympiad

## Academic Service

ORGANIZER: First Workshop on Theory of Mind at ICML 2023

REVIEWER: ICON 2021, NILLI@EMNLP 2021, ACL 2023, EMNLP 2023, BlackboxNLP@EMNLP 2023

## Teaching Experience

Fall 2023	<b>Teaching Assistant</b> , Advanced Natural Language Processing, <i>Carnegie Mellon University</i>
Spring 2020	<b>Teaching Assistant</b> , Computational Linguistics I, <i>IIT, Hyderabad</i>

## Outreach

### Pāṇini Linguistics Olympiad

- Closely involved with the Indian national Linguistics Olympiad
- Member of the Problem Committee (2022–)
- Member of the Organizing Committee for the program from 2018–2022
- Co-chair of Problem Committee and Jury (2018–2021)
- Team leader and coach for Indian team at the International Linguistics Olympiad in 2018, 2019, and 2021
- Lecturer at Joint Asian-Pacific Linguistics Training, 2021–22