Saujas Vaduguru

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Education

2022- Ph.D. in Language and Information Technologies

present 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
Research Intern, Chandar Research Lab, Mila
Mentors: Sarath Chandar, Prasanna Parthasarathi

Publications

- [8] Generating Pragmatic Examples to Train Neural Program Synthesizers Saujas Vaduguru, Daniel Fried, Yewen Pu arXiv preprint
- [7] Amortizing Pragmatic Program Synthesis with Rankings Yewen Pu, Saujas Vaduguru, Priyan Vaithilingam, Elena Glassman, Daniel Fried arXiv preprint
- [6] Symbolic Planning and Code Generation for Grounded Dialogue
 Justin Chiu, Wenting Zhao, Derek Chen, Saujas Vaduguru, Alexander Rush, Daniel
 Fried
 Conference on Empirical Methods in Natural Language Processing (EMNLP), 2023
- [5] Adapting to Gradual Distribution Shifts with Continual Weight Averaging
 Jared Fernandez, Saujas Vaduguru, Sanket Vaibhav Mehta, Yonatan Bisk, Emma
 Strubell

Poster presented at Workshop on High-dimensional Learning Dynamics 40th International Conference on Machine Learning (ICML), 2023

- [4] **Probing Negation in Language Models**Shashwat Singh, Shashwat Goel, **Saujas Vaduguru**, Ponnurangam Kumaraguru
 Poster presented at the 8th Workshop on Representation Learning for NLP (RepL4NLP)
 61st Annual Meeting of the Association for Computational Linguistics (ACL), 2023
- [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

last updated: December 17, 2023

[2] Efficient Pragmatic Program Synthesis with Informative Specifications Saujas Vaduguru, Kevin Ellis, Yewen Pu

Contributed talk at Workshop on Meaning in Context: Pragmatic Communication in Humans and Machines, 35th Conference on Neural Information Processing Systems (NeurIPS), 2021

[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, IIIT, Hyderabad

2015 Honourable Mention, International Linguistics Olympiad

Academic Service

Organizer: First Workshop on Theory of Mind at ICML 2023

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

ICON 2021

Teaching Experience

Fall 2023 Teaching Assistant, Advanced Natural Language Processing, Carnegie Mellon University

Spring 2020 Teaching Assistant, Computational Linguistics I, IIIT, Hyderabad

Invited Talks

Fall 2023 Program synthesis from informative examples, CMU Software Research Seminar

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

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