

SAUJAS VADUGURU

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 saujas1999@gmail.com

EDUCATION

2017-Present B.Tech. in Computer Science and M.S. (by Research) in Computational Linguistics
INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY, HYDERABAD GPA: 9.46/10

RESEARCH EXPERIENCE

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| Present
May 2021 | Summer Intern, Chandar Research Lab, MONTREAL INSTITUTE OF LEARNING ALGORITHMS, Remote
<i>ADVISORS:</i> Sarath Chandar, Chinnadhurai Sankar, Prasanna Parthasarathi
‣ Part of the Mitacs Globalink Research Internship program
<div>Continual Learning Dialogue Systems NLP</div> |
| Present
May 2019 | Undergraduate Researcher, Language Technologies Research Center, IIIT, Hyderabad
<i>ADVISORS:</i> Monojit Choudhury, Dipti Misra Sharma
‣ Developing interpretable methods to perform complex reasoning on linguistic patterns based on a few examples
‣ Applying program synthesis tools for few-shot rule-learning
<div>Program Synthesis Phonology</div> |

PUBLICATIONS

SAMPLE-EFFICIENT LINGUISTIC GENERALIZATIONS THROUGH PROGRAM SYNTHESIS: EXPERIMENTS WITH PHONOLOGY PROBLEMS
Saujas Vaduguru, Aalok Sathe, Monojit Choudhury, and Dipti Misra Sharma
SIGMORPHON @ ACL 2021

SELECTED PROJECTS

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| PROGRAM SYNTHESIS WITH PRAGMATIC COMMUNICATION
<i>ADVISOR:</i> Yewen (Evan) Pu
Using the Rational Speech Acts model to generate pragmatic specifications for program synthesis allowing for inferring programs from fewer examples.
<div>Program Synthesis Rational Speech Acts</div> | 2021 |
| WIKIPEDIA SEARCH ENGINE
Information Retrieval and Extraction Course Project
Built a search engine to index and search a large Wikipedia corpus.
<div>Information Retrieval</div> | 2020 |
| INCORPORATING DEPENDENCY SYNTAX INTO TRANSFORMER-BASED NEURAL MACHINE TRANSLATION
Natural Language Processing Applications Course Project
Using dependency grammars to add stronger syntax bias to Transformer-based NMT models.
<div>NLP Machine Translation</div> | 2020 |
| DISCOURSE-BASED SENTENCE REPRESENTATIONS FOR HINDI
Natural Language Processing Course Project
Created discourse based representations for Hindi sentences using methods in <i>DisSent: Sentence Representation Learning from Explicit Discourse Relations</i> by Nie et al.
<div>NLP</div> | 2019 |

TEACHING EXPERIENCE

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| 2020 | Computational Linguistics I, IIIT HYDERABAD, <i>INSTRUCTOR</i>: Prof. Dipti Misra Sharma <ul style="list-style-type: none">➤ Course introducing students to computational methods in phonology, morphology, and syntax➤ Designed and graded assignments➤ Taught tutorial sessions |
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ACTIVITIES

PANINI LINGUISTICS OLYMPIAD 2018-PRESENT
Co-chair of Problem Committee for Panini Linguistics Olympiad 2018-2021. Team leader for the Indian team at the International Linguistics Olympiad in 2018, 2019, and 2021.

AWARDS AND HONOURS

DEAN'S LIST AWARD FOR ACADEMIC PERFORMANCE	2020, 2018
Top 10% of cohort	
DEAN'S MERIT LIST AWARD FOR ACADEMIC PERFORMANCE	2019
Top 20% of cohort	
HONOURABLE MENTION, INTERNATIONAL LINGUISTICS OLYMPIAD	2015