

# 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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| <b>Present</b><br>May 2021 | <b>Summer Intern, Chandar Research Lab, MONTREAL INSTITUTE OF LEARNING ALGORITHMS, Remote</b><br><i>ADVISORS:</i> Sarath Chandar, Chinnadhurai Sankar, Prasanna Parthasarathi <ul style="list-style-type: none"><li>➤ Part of the Mitacs Globalink Research Internship program</li><li>➤ Experimented with various continual learning settings for task-oriented dialogue</li><li>➤ Explored using language models in interactive settings</li></ul> <div style="display: flex; gap: 5px;"><span>Continual Learning</span><span>Dialogue Systems</span><span>NLP</span></div> |
| <b>Present</b><br>May 2019 | <b>Undergraduate Researcher, Language Technologies Research Center, IIIT, Hyderabad</b><br><i>ADVISORS:</i> Monojit Choudhury, Dipti Misra Sharma <ul style="list-style-type: none"><li>➤ Developing interpretable methods to perform complex reasoning on linguistic patterns based on a few examples</li><li>➤ Applying program synthesis tools for few-shot rule-learning</li></ul> <div style="display: flex; gap: 5px;"><span>Program Synthesis</span><span>Phonology</span></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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| <b>PROGRAM SYNTHESIS WITH PRAGMATIC COMMUNICATION</b><br><i>ADVISOR:</i> Yewen (Evan) Pu<br>Using the Rational Speech Acts model to generate pragmatic specifications for program synthesis allowing for inferring programs from fewer examples. <div style="display: flex; gap: 5px;"><span>Program Synthesis</span><span>Rational Speech Acts</span></div> | 2021 |
| <b>WIKIPEDIA SEARCH ENGINE</b><br>Information Retrieval and Extraction Course Project<br>Built a search engine to index and search a large Wikipedia corpus. <div style="display: flex; gap: 5px;"><span>Information Retrieval</span></div>  | 2020 |
| <b>INCORPORATING DEPENDENCY SYNTAX INTO TRANSFORMER-BASED NEURAL MACHINE TRANSLATION</b><br>Natural Language Processing Applications Course Project<br>Using dependency grammars to add stronger syntax bias to Transformer-based NMT models. <div style="display: flex; gap: 5px;"><span>NLP</span><span>Machine Translation</span></div>                   | 2020 |
| <b>DISCOURSE-BASED SENTENCE REPRESENTATIONS FOR HINDI</b><br>Natural Language Processing Course Project<br>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 style="display: flex; gap: 5px;"><span>NLP</span></div>        | 2019 |

## TEACHING EXPERIENCE

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

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**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

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