

SAUJAS VADUGURU

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EDUCATION

2017-Present B.Tech. in Computer Science and M.S. (by Research) in Computational Linguistics
INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY, HYDERABAD GPA: 9.49/10

RESEARCH EXPERIENCE

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| August 2021
May 2021 | Summer Intern, Chandar Research Lab, MILA, QUEBEC, Remote
<i>ADVISORS:</i> Sarath Chandar, Prasanna Parthasarathi <ul style="list-style-type: none">➤ Part of the Mitacs Globalink Research Internship program➤ Experimented with various continual learning settings for task-oriented dialogue➤ Exploring using pretrained language models to generate language to solve tasks in artificial worlds <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 <ul style="list-style-type: none">➤ 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 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 |
| SLOT-INCREMENTAL CONTINUAL LEARNING FOR TASK-ORIENTED DIALOGUE
<i>ADVISORS:</i> Sarath Chandar, Prasanna Parthasarathi, Chinnadhurai Sankar
Training language models for dialogue state tracking in a continual manner, where new slots to be tracked for the same dialogue domain are presented over time.
<div>Continual Learning Dialogue Systems</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 |

TEACHING EXPERIENCE

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| 2020 | Computational Linguistics I, IIIT HYDERABAD, <i>INSTRUCTOR</i>: 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