

SHRAVAN NAYAK

PERSONAL DATA

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EDUCATION

SEP 2023 | Master's in COMPUTER SCIENCE (THESIS)
- CURRENT | University of Montreal, Montreal
Advisor: Prof. Aishwarya Agrawal

JULY 2017 | Bachelor's in ELECTRONICS ENGINEERING
- MAY 2021 | IIT (BHU) Varanasi, Varanasi, GPA: 9.41/10
Head of Programmers Club, Department Football team

WORK EXPERIENCE

SEP 2023 | Graduate Research Assistant at MILA, Montreal
- CURRENT | ADVISORS: [Prof. Aishwarya Agrawal](#)
- Developing vision language systems and datasets that transcend linguistic barriers to cater to diverse demographics and cultures.

SEP 2021 | Research Intern at UNIVERSITY OF TORONTO, Toronto
- MAR 2023 | ADVISORS: [Prof. En Shiun Annie Lee](#), [Prof. Surangika Ranathunga](#)
- Conducted an extensive analysis of mBART's and mT5's translation performance on eight diverse low-resource languages.
- Executed large scale empirical tests for translation in low-resource languages to identify the best fine-tuning and pre-training methods for domain adaptation.

JUL 2021 | Software Engineer II at MICROSOFT, Hyderabad
- AUG 2023 | Part of the **PowerPoint Mobile** team
- Played a key role in crafting user experiences, developing features like background customization, text highlighting and online video insertion.

MAY 2020 | Research Intern at UNIVERSITY OF HAMBURG, Hamburg
- DEC 2022 | ADVISORS: [Prof. Timo Baumann](#), [Prof. Chris Beimann](#),
- Curated a single-speaker German audio-video-text corpus from Angela Merkel's podcasts and developed a video-TTS system for lip-synchronous speech generation.
- Evaluated SyncNet scores' aptness as an audio-visual synchrony metric and analyzed its correlation with human judgments.
- Investigated machine translation systems in the context of Dubbing.

MAY 2019 | Research Intern at INDIAN INSTITUTE OF SCIENCE, Bangalore
- DEC 2019 | ADVISORS: [Prof. Shalabh Bhatnagar](#), [Prof. Raghuram Bharadwaj](#)
- Leveraged a novel DQN approach in formulating and addressing supply-demand management in multi-microgrid networks.

PUBLICATIONS

Refereed | [LEVERAGING AUXILIARY DOMAIN PARALLEL DATA IN INTERMEDIATE TASK FINE-TUNING FOR LOW-RESOURCE TRANSLATION](#)

Papers | **Shravan Nayak**, Surangika Ranathunga, Sarubi Thillainathan, Rikki Hung, Anthony Rinaldi, Yining Wang, Jonah Mackey, Andrew Ho, En-Shiun Annie Lee
Practical Machine Learning for Developing Countries (PML4DC) workshop, ICLR 2023

PRE-TRAINED MULTILINGUAL SEQUENCE-TO-SEQUENCE MODELS: A HOPE FOR LOW-RESOURCE LANGUAGE TRANSLATION?

En-Shiun Annie Lee, Sarubi Thillainathan, **Shravan Nayak**, Surangika Ranathunga, David Ifeoluwa Adelani, Ruisi Su, Arya D. McCarthy

Findings of the Association for Computational Linguistics, ACL 2022

A DEEP DIVE INTO NEURAL SYNCHRONY EVALUATION FOR AUDIO-VISUAL TRANSLATION

Shravan Nayak, Christian Schuler, Debjoy Saha, Timo Baumann

Proceedings of the 2022 International Conference on Multimodal Interaction, ICMI 2022

MERKEL PODCAST CORPUS: A MULTIMODAL DATASET COMPILED FROM 16 YEARS OF ANGELA MERKEL'S WEEKLY VIDEO PODCASTS

Debjoy Saha, **Shravan Nayak**, Timo Baumann

Language Resources and Evaluation Conference, LREC 2022

THE TWO SHADES OF DUBBING IN NEURAL MACHINE TRANSLATION

Alina Karakanta, Supratik Bhattacharya, **Shravan Nayak**, Timo Baumann, Matteo Negri, Marco Turchi

Proceedings of the 28th International Conference on Computational Linguistics, COLING 2020

SEE ME SPEAKING? DIFFERENTIATING ON WHETHER WORDS ARE SPOKEN ON SCREEN OR OFF TO OPTIMIZE MACHINE DUBBING

Shravan Nayak, Timo Baumann, Supratik Bhattacharya, Alina Karakanta, Matteo Negri, Marco Turchi

Deep Video Understanding Workshop, ICMI 2020

STOCHASTIC GAME FRAMEWORKS FOR EFFICIENT ENERGY MANAGEMENT IN MICROGRID NETWORKS

Shravan Nayak, Chanakya Ekbote, Annanya Pratap Singh Chauhan, Raghuram Bharadwaj Diddigi, Prishita Ray, Abhinava Sikdar, Sai Koti Reddy Danda, Shalabh Bhatnagar

2020 IEEE PES Innovative Smart Grid Technologies Europe, ISGT-Europe 2020

AWARDS

- 2023 Mila Scholarship (Providing full tuition coverage and stipend)
- 2020 DAAD WISE Scholarship
- 2019 Indian Academy of Sciences, Summer Research Fellowship

INVITED TALKS

- MAY 2023 Demystifying LLMS, IIT (BHU) VARANASI
- NOV 2022 [Pre-Trained Multilingual Sequence-to-Sequence Models for NMT: Tips, Tricks and Challenges](#), TORONTO MACHINE LEARNING SUMMIT
- SEP 2022 iOS Debugging Tools, MICROSOFT
- AUG 2021 [Research Scholarships for Undergrads](#), COMPUTER VISION TALKS