

SAUMYA YASHMOHINI SAHAI

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Research Interests

Broadly interested in applied machine learning, particularly in building and explaining state-of-the-art deep neural models with applications in natural language processing/understanding, computational linguistics, social computing and computational brain & behavior.

Education

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| The Ohio State University | Jun 2019 – Dec 2021(Expected) |
| Master of Science in Computer Science, 3.8/4.0 | Columbus, OH |
| Cornell University | Aug 2016 – May 2019 |
| Master of Science in Neurobiology and Behavior, 3.9/4.0 | Ithaca, NY |
| Birla Institute of Technology and Science, Pilani | Aug 2011 – Jul 2016 |
| Bachelor of Engineering in Computer Science and Master of Science in Physics, 9.2/10.0 | Pilani, India |

Experience

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| Spotify Inc. <i>Machine Learning Intern</i> Remote, USA | May 2021 – Aug 2021 |
| Working with Language Technologies team on improving voice recognition through personalization. | |
| INRIA, Cedar Team <i>Research Intern in NLP</i> Remote, France | May 2020 – Aug 2020 |
| Built a new dataset and neural models for understanding discourse in online discussions. Accepted at ACL 2021. | |
| Cornell University <i>Graduate Research Assistant</i> Ithaca, NY | Aug 2016 – May 2019 |
| Modeled trajectories and feeding behavior of fruit flies using reinforcement learning under various behavioral states. | |
| Adobe Systems <i>Product Development Intern</i> Noida, India | Jan 2016 – Jun 2016 |
| Implemented a 2-way and 3-way diff and merge algorithm in C++ for reimported text in Adobe InDesign. | |
| Queensland Brain Institute <i>Research Intern</i> Brisbane, Australia | May 2015 – Jul 2015 |
| Developed models to explain the neuronal activity patterns in the brain of an organism. | |

Technical Skills

Proficient: Python, PyTorch, Keras, Scikit-learn, Linux, Git, Amazon Mechanical Turk

Experienced: Java, SQL, R, C++, Javascript, Kubeflow, Google Cloud Platform

Recent Publications

- **Saumya Y. Sahai**, Balalau O., Horincar R. *Breaking Down the Invisible Wall of Informal Fallacies in Online Discussions*. Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics (**ACL 2021**)
- Dravyansh Sharma, **Sahai S. Y.**, Chaudhari N., Bruguier A. *Improved pronunciation prediction accuracy using morphology*. The ACL Special Interest Group on Computational Morphology and Phonology (**ACL 2021**)
- **Saumya Y. Sahai***, Sharma D.* *Predicting and Explaining French Grammatical Gender*. The ACL Special Interest Group on Typology (**NAACL 2021**) (* denotes equal contribution)
- **Saumya Y. Sahai**, Gurukar, S., KhudaBukhsh, W. R., Parthasarathy, S., Rempala, G. *A Machine Learning Model for Nowcasting Epidemic Incidence*. (**Journal of Mathematical Biosciences**, **2021**)
- Bortik Bandyopadhyay, Maneriker, P., Patel, V., **Sahai, S. Y.**, Zhang, P., Parthasarathy, S. *DrugDBEmbed: Semantic Queries on Relational Database using Supervised Column Encodings*. arXiv:2007.02384 (2020)
- Samuel Whitehead, Shirangi T., Lindsay T., **Sahai S. Y.**, Ehrhardt E., Beatus T., Yapici N., Dickinson M., Stern D., Cohen I. *Uncovering the Neural Basis of Flight Control in Fruit Flies*. March Meeting 2018, **American Physical Society**

Relevant Coursework

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| • Speech and language processing | • Social media and text analytics | • Data mining and machine learning |
| • Cutting-edge topics in NLP | • Algorithms | • Ethics and fairness in AI |

Awards and Honours

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| Global Gateway Graduate Research Abroad Grant <i>Council of Graduate Students, The Ohio State University</i> | 2020 |
| University Fellowship <i>The Graduate School, The Ohio State University</i> | 2019 |
| Mong Junior Fellowship <i>Cornell Neurotech, Cornell University</i> | 2018 |
| Cornell Graduate Fellowship <i>The Graduate School, Cornell University</i> | 2016 |
| INSPIRE Fellowship <i>Department of Science and Technology, Govt. of India</i> | 2011 |