

# 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

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

## Experience

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

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