Aditya Yedetore

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EDUCATION

Johns Hopkins University, Baltimore, MD, USA

- Double Majoring in **Computer Science** and **Cognitive Science** — Aug 2018 – Dec 2021
  - Cumulative GPA: 3.75 / 4.0

RESEARCH EXPERIENCE

Computation and Psycholinguistics Lab, Undergraduate Research — Jan 2020 – Present

- Started an experiment to determine if neural networks can learn English syntax from data available to children.
- Collected and processed data from CHILDES (an online database of language children might hear).
- Trained RNNs on that data, and performed a hyper-parameter search to find best performing models.
- Presented work in lab meetings and to professors of other colleges, facilitating ideas for new lines of research.

Vision and Cognition Lab, Undergraduate Research — Aug 2019 – Present

- Built a website to run an experiment that probed the interaction between object processing and language.
- Crowdsourced experiment participants with MTurk.
- Performed statistical tests on the collected data, and found results supporting our hypothesis.

LEADERSHIP

Johns Hopkins Outdoors Club (JHOC), Leader — Sep 2018 – Present

- Coordinated and led free caving, mountain biking, and climbing trips for undergrads.
- Organized publicity events.
- Maintained and updated JHOC website.

Johns Hopkins Badminton Club, Team Member — Jul 2018 – 2019

- Helped team place 4th in the East Coast 1A division.
- Trained team members.

SKILLS

- Programming: Python: highly familiar. C#, Java, C/C++: known at an intermediate level.
- Development: HTML/CSS, JavaScript, php, MySQL: website design and implementation
- Frameworks and Libraries: PyTorch, Numpy, Pandas, Unity
- Misc: NLP, Git, MTurk, LaTeX, Markdown, Vim, Bash, SLURM, Wilderness First Responder

RELEVANT & COURSEWORK

Computational Psycholinguistics — Spring 2018

- Final Project – Tested methods for augmenting bag of words representations derived from word embeddings generated by a pretrained RNN. See the iPython notebook containing results here.

Machine Learning — Fall 2020

- Final project – Used RNNs to detect hate speech in twitter data. See the GitHub for the final project here.

Deep Learning — Spring 2020

- Final project – Created idea for modification neural network architecture that may provide more robust linguistic generalization, and pulled together team for implementation. Project results forthcoming.

Foundations of Cognitive Science — Spring 2020

- Read four papers (average 75 pages) weekly, summarized and produced writeups for each.

AWARDS & SCHOLARSHIPS

- Dean's List $\times 3$ — Fall 2018, Fall 2019, Fall 2020
- Summer Pura Award — Summer 2020
  - $4000 Grant for summer research, used for deep learning research in the JHU Computation and Psycholinguistics Lab.