

Rajiv Movva

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Interests: NLP, Responsible AI, Healthcare/Biology

EDUCATION

PhD Candidate, Cornell University <i>Computer Science; Cornell Tech campus</i> Committee: Emma Pierson (advisor), Nikhil Garg, David Mimno	2022 - 2027
Bachelor of Science, Massachusetts Institute of Technology <i>Computer Science; Minors in Biology and Gender Studies. GPA: 4.9/5.0</i> Research Advisors: Catherine D'Ignazio, Michael Carbin	2018 - 2022

AWARDS

Digital Life Initiative Doctoral Fellow	2023 - 2024
NSF Graduate Research Fellow	2022 - 2025
Best Student Paper, FAccT 2022	2022
Finalist, Hertz Fellowship	2022
Best Paper, BlackboxNLP Workshop	2020
Finalist, Regeneron Science Talent Search	2018

SELECTED PAPERS

6. **Rajiv Movva**, Sidhika Balachandar, Kenny Peng, Gabriel Agostini, Nikhil Garg, Emma Pierson. "[Topics, Authors, and Institutions in Large Language Model Research: Trends from 17K arXiv Papers.](#)" Submitted.
5. **Rajiv Movva**, Divya Shanmugam, Kaihua Hou, Priya Pathak, John Gutttag, Nikhil Garg, Emma Pierson. "[Coarse race data conceals disparities in clinical risk score performance.](#)" *MLHC* 2023.
4. Harini Suresh, **Rajiv Movva**, Amelia Dogan, Giulia Taurino, Rahul Bhargava, Catherine D'Ignazio. "[Towards Intersectional, Feminist, Participatory ML: A Case Study in Supporting Femicide Counterdata Collection.](#)" *FAccT* 2022, **Best Paper.** 🏆
3. **Rajiv Movva**, Jinhao Lei, Shayne Longpre, Ajay Gupta, Chris DuBois. "[Combining Compressions for Multiplicative Size Scaling on Natural Language Tasks.](#)" *COLING* 2022.
2. **Rajiv Movva** and Jason Zhao. "[Dissecting Lottery Ticket Transformers: Structural and Behavioral Study of Sparse Neural Machine Translation.](#)" *BlackboxNLP @ EMNLP* 2020, **Best Paper.** 🏆
1. **Rajiv Movva**, Jonathan Frankle, Michael Carbin. "[Studying the Consistency and Composability of Lottery Ticket Pruning Masks.](#)" *ICLR Workshop on Science and Engineering of Deep Learning* 2021.

WORK EXPERIENCE

Waymo – <i>Machine Learning Intern, Behavior Prediction</i> Causal trajectory prediction for other agents	Summer 2021
Apple – <i>Research Intern, Siri</i> Quantization & distillation for efficient BERT inference	Spring 2021
NVIDIA – <i>Machine Learning Intern, Genomics</i> GPU acceleration for single-cell ATAC-seq analysis	Summer 2020
Genesis Therapeutics – <i>Research Intern</i> Graph neural networks for ligand-protein binding prediction	Summer 2019
Stanford Genetics – <i>Student Researcher (advised by Anshul Kundaje)</i> Interpreting ConvNets to infer regulatory DNA grammars	Summer 2017 & 2018

PREPRINTS / OTHER WRITING

Corey Nolet, Avantika Lal, Rajesh Ilango, Taurean Dyer, **Rajiv Movva**, John Zedlewski, Johnny Israeli.
“Accelerating single-cell genomic analysis with GPUs.” *bioRxiv* (2022).

Rajiv Movva. “Fairness Deconstructed: A Sociotechnical View of 'Fair' Algorithms in Criminal Justice.” (2021).

Rajiv Movva. “Algorithms Won’t Solve Criminal Justice.” (2020).

Rajiv Movva. “Calling Out COVID-19 Napkin Math.” (03/2020).

SELECTED COURSEWORK

<i>Machine Learning</i>	6.867 Advanced Machine Learning, 6.864 Advanced Natural Language Processing, 6.883 Computational Therapeutic Design, 6.884 Neuro-symbolic Models for NLP, 6.438 Algorithms for Inference
<i>Social Sciences</i>	INFO 6210 Information, Technology, and Society [Cornell], WGS.301 Feminist Theory, WGS.245 Queer Literature, 11.S195 Data Activism & Gender-Based Violence, WGS.S10 Feminist Data Ethics
<i>Misc. (Biology, General CS)</i>	7.20 Human Physiology, 7.28 Molecular Biology, 7.05 Biochemistry, 7.29 Cellular Neuroscience, 6.02 Signals & Networks, 6.172 Software Performance Engineering

SKILLS / ACTIVITIES

Programming: Python (NumPy, Matplotlib & seaborn, TensorFlow, PyTorch), R, C++

AI Club @ MIT [\[link\]](#): President (2020-21), Workshops Chair (2019-20)

The Tech (MIT newspaper) [\[link\]](#): Arts Writer (2020-21)

AI Ethics Reading Group [\[link\]](#): Member (2019-2021)

Languages: English (native), French (basic), Telugu (basic)

Hobbies: Cooking South Indian food, rock climbing, reading, watching tennis