

Sidharth Baskaran

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EDUCATION

Georgia Institute of Technology

Aug. 2022 – Present (on-leave)

B.S. Computer Science, GPA: 4.0

Atlanta, GA

- **Coursework:** Data Structures & Algorithms, Linear Algebra, Multivariable Calculus, Honors Discrete Math
- **Awards:** President's Undergraduate Research Salary Award (Summer & Fall 2023), Faculty Honors

EXPERIENCE

Founding Engineer & Researcher

June 2023 – Present

Automorphic (YC S23)

San Francisco, CA

- Developing novel architectural and training methods for continual learning and domain knowledge infusion in language models while mitigating task interference
- Researching methods for sample-efficient alignment for improved factuality of language models
- Developed various custom internal tools for data processing, training, and inference of models

Research Collaborator

April 2024 – Present

Confirm Labs

Remote

- Exploring new ways of leveraging sparse autoencoders to extract circuits from transformer language models
- Worked on hypernetwork-based model editor architecture that intervenes on a target model's activations given natural language instructions

Research Intern

June 2023 – July 2023

Oak Ridge National Laboratory

Oak Ridge, TN (Remote)

- Adapted the Relational Transformer and Tokenized Graph Transformer architectures to support property prediction tasks on crystal structures and explored heterogeneous GNN architectures

Undergraduate Researcher

Sept. 2022 – July 2023

Fung Lab, Georgia Tech School of Computational Science & Engineering

Atlanta, GA

- Developed a novel model-agnostic method involving virtual nodes to improve performance of graph neural networks (GNNs) on metal organic framework regression tasks (PURA recipient)
- Helped develop MatDeepLearn by implementing distributed training and hyperparameter optimization; optimized large-scale data preprocessing through a batch processing routine optimized for graphs

PUBLICATIONS & PREPRINTS

Gupta, A., Baskaran, S., & Anumanchipalli, G. (2024). Rebuilding rome : Resolving model collapse during sequential model editing. ACL 2024 KnowledgeLM workshop. Retrieved from <https://arxiv.org/abs/2403.07175> (link, pdf, code)

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, MATLAB/Octave, C++, HTML/CSS, \LaTeX

Skills: PyTorch, Docker, Git, Ray, Slurm, GCP, Unix, CAD & prototyping