

Suhas Kotha

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WORK EXPERIENCE

CMU SCS

RESEARCH ASSISTANT 2/21 – Current

Language Model Fine-tuning: Offered insight into catastrophic forgetting in language models through Bayesian inference. Mentored by Aditi Raghunathan.

Formally Verified ML: Proposed and solved the task of provably over-approximating the preimage of a neural network. Mentored by Huan Zhang, Krishnamurthy Dj, & Zico Kolter.

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Jane Street

Python, OCaml, SQL

QUANT TRADING INTERN 5/22 – 8/22

Improved algorithmic strategy for bond RFQ's. Developed providing algorithm based on commodities market micro-structure

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NASA (SpaceML)

Tensorflow

MACHINE LEARNING INTERN 6/20 – 1/21

Proposed and developed self-supervised scene classification tool for sparsely labeled satellite imagery, currently used by NASA ([report](#))

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Cesion, LLC

HTML/CSS/JS

CO-FOUNDER OF ZURIEL 3/18 – 5/20

Successfully launched platform that redirected advertising revenue into funding schools and incentives for completing homework

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UC Santa Cruz

Python

RESEARCH INTERN 6/19 – 8/19

Designed machine classification methods for newly discovered Weak CN stars in Andromeda Galaxy ([poster](#))

LANGUAGES

Python, OCaml, C/C++, Java, SQL, Lean

EDUCATION

Carnegie Mellon University

MS+BS COMPUTER SCIENCE, 2020-2024

Selected Coursework

- > (PhD) Automated Reasoning & SAT
- > (PhD) Probabilistic Combinatorics
- > (PhD) Analytic Convex Geometry
- > (PhD) Foundations of Modern ML
- > (PhD) Algorithms for Big Data
- > (PhD) Convex Optimization
- > (PhD) Generative Computer Vision
- > (PhD) Intermediate Statistics
- > Parallel Computer Architecture

PUBLICATIONS

[Understanding Catastrophic Forgetting in Language Models via Implicit Inference](#)

Suhas Kotha, Jacob Springer, Aditi Raghunathan
Preprint

[Provably Bounding Neural Network Preimages](#)

Suhas Kotha*, Christopher Brix*, Zico Kolter, Krishnamurthy Dvijotham[†], Huan Zhang[†]
NeurIPS 2023 (Spotlight Award)

SERVICE

- > Reviewer for NeurIPS, ICML, ICLR, TMLR
- > Co-founded CMU Undergrad TCS Community

TEACHING

- > Instructor for Type Theory (S22, F22)
- > TA Functional Programming (S21, S22)
- > TA Algorithm Design/Analysis (F22)
- > TA Math Foundations for CS (F21)

ACHIEVEMENTS

- > Putnam Top 500
- > USA Math Olympiad
- > USA Computing Olympiad Platinum