

Kazem Meidani, PhD

✉mk.meydani@gmail.com 🏠Santa Clara, US ☎+1(412)897-3578
🌐mmeidani.github.io 🌐mmeidani 🐦@KazemMeidani 🌐KazemMeidani

EXPERIENCE

Capital One

Dec 2024 - Present

AI Researcher I

San Jose, CA

AI Foundations, Supervisor: Bayan Bruss, Nam Nguyen

Research area: Large Language Models, Reasoning, Interpretability, Decision Making in Finance

Carnegie Mellon University

Aug 2019 - Sept 2024

PhD Research Assistant

MAIL lab, Supervisor: Amir Barati Farimani

Pittsburgh, PA

Research areas: AI for Math, Code, and Scientific Discovery

Reasoning Models, LLM Agents, Test-time Planning

- Reward Modeling in Symbolic Math and Code Reasoning with Large Language Models
- Scientific Reasoning and Combinatorial Optimization with Large Language Models
- Iterative Test-time Hypothesis Refinement for Math Discovery with LLM Agents
- Multi-modal Foundation Model Pretraining for Mathematical Representation Learning
- Transformers for Neural Operator Learning and Numerical Simulation of Dynamical Systems

Netflix

May 2024 - Aug 2024

Machine Learning Research, Intern

Los Gatos, CA

Foundation Models for Recommendation and Personalization, Supervisors: Qiuling Xu, Sudarshan Lamkhede

Research area: Efficient tokenization in Foundation Models for Personalized Recommendation

Electronic Arts

May 2022 - Aug 2022

AI Scientist Intern

Redwood City, CA

EA AI Lab, Supervisors: Igor Borovikov, Harold Chaput

Research area: AI for physical agentic modeling in games

EDUCATION

Carnegie Mellon University

Pittsburgh, PA

Ph.D. in Engineering and Artificial Intelligence. GPA: 3.96/4.0

2019 - 2024

Sharif University of Technology

Tehran, Iran

Double Major B.Sc.

2014 - 2019

Mechanical and Industrial Engineering (Rank 1st among 200 students, GPA: 19.20/20)

TECHNICAL SKILLS

Programming

Python, C/C++

Deep Learning

PyTorch, TENSORFLOW, JAX, Hugging Face, vLLM, DeepSpeed

SELECTED PUBLICATIONS

(For the complete publication list please refer to the Google Scholar, * denotes equal contribution)

- *Decompose, Adapt, and Evolve: Towards Efficient Scientific Equation Discovery with Large Language Models* **NeurIPS 2025 MATH-AI workshop**
P. Behzadifar, P. Shojaei, S. Kabra, **K. Meidani**, C.K. Reddy. [\[Paper\]](#)
- *LLM-SRBench: A Benchmark for Scientific Equation Discovery with Large Language Models* **ICML 2025 (Oral)**
P. Shojaei, N. Nguyen, **K. Meidani**, AB. Farimani, K. Doan, C.K. Reddy. [\[Paper\]](#)[\[Code\]](#)
- *LLM-SR: Scientific Equation Discovery via Programming with Large Language Models* **ICLR 2025 (Oral)**
K. Meidani, P. Shojaei, S. Gupta, AB. Farimani, C.K. Reddy. [\[Paper\]](#)[\[Code\]](#)
- *SNIP: Bridging Mathematical Symbolic and Numeric Realms with Unified Pre-training* **ICLR 2024 (Spotlight)**
K. Meidani, P. Shojaei, C.K. Reddy, AB. Farimani. [\[Paper\]](#)[\[Code\]](#)
- *Transformer-based Planning for Symbolic Regression* **NeurIPS 2023**
K. Meidani, P. Shojaei, AB. Farimani, C.K. Reddy. [\[Paper\]](#)[\[Code\]](#)
- *Transformer for Partial Differential Equations' Operator Learning* **TMLR**
Z. Li, **K. Meidani**, AB. Farimani. (2023) [\[Paper\]](#)[\[Code\]](#)
- *Graph convolutional networks applied to unstructured flow field data* **MLST**
F. Ogoke, **K. Meidani**, A. Hashemi, AB. Farimani. (2021) [\[Paper\]](#) [\[Code\]](#)

TEACHING AND PROFESSIONAL SERVICES

- **Conference Reviews:** NeurIPS 2024-2025 (top reviewer) , ICLR 2025-2026, ICML 2025, AAAI 2026, NeurIPS AI4Science and MATH-AI workshops 2025
- **Journal Reviews:** Nature Communications, Expert Systems with Applications, etc.
- **Teaching Assistant at CMU** for graduate course 'AI and ML for Engineers'.

SELECTED GRADUATE COURSES

- Machine Learning. MLD 10-701
- Deep Reinforcement Learning. MLD 10-703
- Convex Optimization. MLD 10-725
- Probability and Statistics. STAT 36-700

HONORS AND AWARDS

- **Top Reviewer** at NeurIPS 2025
- **Oral presentation (top 1%)** at ICML 2025
- **Oral presentation (top 1.8%)** at ICLR 2025
- **Spotlight presentation (top 5%)** at ICLR 2024
- **Ranked 1st** in SRBench Competition, 2023
- **Ranked 1st** among 100 students. Class of 2019. Industrial Engineering, Sharif University of Technology
- **Ranked 2nd** among 120 students. Class of 2019. Mechanical Engineering, Sharif University of Technology
- **Ranked 7th** in National University Entrance Exam (2014) · Among 200,000 Students