


Kazem Meidani

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EDUCATION

Carnegie Mellon University · GPA: 3.93/4.0 <i>PhD in Mechanical Engineering</i> <i>M.Sc. in Mechanical Engineering</i>	<i>Pittsburgh, PA</i> 2019 - May 2024 (<i>Expected</i>)	Sharif University of Technology · GPA: 4.0/4.0 <i>B.Sc. in Mechanical Engineering</i> <i>B.Sc. in Industrial Engineering</i>	<i>Tehran, Iran</i> 2014 - 2019
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EXPERIENCE AND PROJECTS

Graduate Research and Teaching Assistant <i>Carnegie Mellon University</i> · Research Assistant in Mechanical and Artificial Intelligence Lab (MAIL) Research interests: Deep Learning Symbolic Mathematics, Deep Learning for Inference and Modeling Physics, and Optimization · Teacher Assistant for “AI and ML for Engineers”	<i>Aug 2019 - Present</i> <i>Pittsburgh, PA</i>
AI Scientist Intern <i>Electronic Arts</i> · Internship in EA AI Lab, Research interest: Machine Learning Frameworks in Sports Games	<i>May 2022 - Aug 2022</i> <i>Redwood City, CA</i>
Undergraduate Research and Teaching Assistant <i>Sharif University of Technology</i> · Research Assistant in MicroNanoSystem Lab (MNSL) · Teacher Assistant for “Theory of Probabilities”, and “Computer Information Systems”	<i>2014 - 2019</i> <i>Tehran, Iran</i>

SELECTED PUBLICATIONS

For a complete and up-to-date publication record, see my [google scholar](#) profile.

- **Kazem Meidani***, P. Shojaee*, C.K. Reddy, A.B. Farimani. (2023). “SNIP: Bridging Mathematical Symbolic and Numeric Realms with Unified Pre-training.”, *Submitted to ICLR 2024*, *Equal Contribution
- **Kazem Meidani***, P. Shojaee*, A.B. Farimani, C.K. Reddy. (2023). “Transformer-based Planning for Symbolic Regression.”, *Thirty-seventh Conference on Neural Information Processing Systems (NeurIPS 2023)*, *Equal Contribution
- Z. Li, **Kazem Meidani**, A.B. Farimani. (2023) “Transformer for Partial Differential Equations’ Operator Learning”, *Transactions on Machine Learning Research (TMLR)*
- **Kazem Meidani**, A.B. Farimani. (2021). “Data-driven identification of 2D Partial Differential Equations using extracted physical features”, *Computer Methods in Applied Mechanics and Engineering (CMAME)*
- **Kazem Meidani**, A.B. Farimani. (2023). “IP2: Identification of Parametric Dynamical Systems using Integer Programming”, *Expert Systems with Applications*
- Z. Li, **Kazem Meidani**, P. Yadav, A.B. Farimani. (2022). “Graph Neural Networks Accelerated Molecular Dynamics”, *Journal of Chemical Physics (JCP)*

TECHNICAL SKILLS

Programming	Python (fluent), MATLAB, C/C++ (familiar)
ML & Deep Learning	PyTorch (fluent), Tensorflow (familiar), Keras, CVXPY, Scikit-learn, SciPy
Molecular Dynamics	LAMMPS, VMD, OpenMM
Simulation & Design	ANSYS Fluent, COMSOL MultiPhysics, SOLIDWORKS

PROFESSIONAL SERVICES

- Reviewer for Journals of Expert Systems with Applications, Applied Soft Computing, Applied Intelligence, IEEE Access, and PLOS ONE