Shane W. Flynn

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Work Experience

Data Scientist, MOTER.ai / Aioi Insurance Services   2021-

- Modeling and machine learning for MOTER edge driver scoring products
- Developed various high performing GLMs to assess driver performance for premium calculations
- Used Python, SQL, and AWS services to perform supervised learning on 500+GB data sets.
- Led regular trainings with the team. Mentored interns and junior level employees. Actively recruited and interviewed candidates.

Data Scientist Intern, MOTER.ai / Aioi Insurance Services   2021

- Computer Vision object detection for MOTER edge driver performance
- Developed a pipeline for object detection beginning with image labeling and ending in CNN deployment

Research Assistant, Caltech, UCI, UMass   2010-2021

- Developed a sampling algorithm in Fortran and Python which can sample any distribution function
- Resulted in a 70% reduction in the total basis size needed during application
- Large-scale simulations of proteins and polymers. Data mining to predict material properties. High-dimensional paramater optimization for molecular dynamics simulations.
- 4 publications with over 50 citations

Teaching Assistant, Caltech, UCI   2015-2021

- **Mathematical Methods:** Graduate Level analytic and numerical methods
- **Statistical Mechanics:** Graduate Level statistical mechanics and applications
- **Nature of the Chemical Bond:** Graduate Level quantum mechanics simulations
- **Linear Algebra:** Undergraduate Level linear algebra theory

Education

Ph.D Theoretical Chemistry, University of California Irvine. Irvine, CA, USA   2017-2021

M.S. Theoretical Chemistry, California Institute of Technology. Pasadena, CA, USA   2015-2017

B.S. Chemistry. B.S Biology, University of Massachusetts Boston. Boston, MA, USA   2010-2015

Skills

Programming Languages and Tools:
Python — FORTRAN — SQL — S3 — EC2 — Sagemaker— Athena — Linux — Git — Docker
Computer Vision — Deep Learning — Tenserflow