

# Shane W. Flynn

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(000)-000-0000

Los Angeles Metropolitan Area

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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

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**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 parameter 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 and Leadership

### **Programming Languages and Tools:**

Python — Sagemaker — S3 — EC2 — SQL — Athena — Linux — Git — Docker — Computer Vision

Deep Learning — Tensorflow