Shane W. Flynn

University of California Irvine   shane.flynn001@gmail.com
my-address   GitHub: https://github.com/swflynn
my-phone-number   LinkedIn: https://www.linkedin.com/in/shane-flynn-676b72184/

Experience

Graduate Researcher Theoretical Chemistry

Projects and Technical Skills

Efficient sampling of any multi-dimensional distribution function.   2018-2020

- Derived a novel method for efficient sampling of a general multi-dimensional distribution function.

- Developed Fortran and Python implementations sampling model distributions as proof of principle.

- Demonstrated the superior efficiency of the method in the context of grid-based methods for solving the generalized eigenvalue problem.

- https://github.com/swflynn/Quasi_Regular_Grids

Education

Ph.D Theoretical Chemistry, University of California Irvine.   2017-2021
Research Advisor: Vladimir A. Mandelshtam   (Expected)

M.S. Theoretical Chemistry, California Institute of Technology.   2015-2017
Research Advisor: William A. Goddard III

B.S. Chemistry. B.S. Biology. Minor Math, University of Massachusetts Boston.   2010-2015
Research Advisors: Jason R. Green. Steven M. Ackermann

Skills

Python, Fortran, Java, JavaScript, SQL, NoSQL, Hadoop, Hive, Scala, Spark, Git, Tableau