

Shane W. Flynn

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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