Oliver Gorton

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INTERESTS

High performance computing, computational physics, nuclear structure, computational quantum mechanics, information theory.

EDUCATION

Ph.D., Computational Science
Computational Science Research Center, SDSU, San Dieg, CA, Present

Masters of Science, Physics
San Diego State University, San Diego, CA, May 2018

Bachelor of Arts, Physics
University of California, Berkeley, CA, 2015-16

COMPUTER SKILLS

Languages & Software: FORTRAN, Python, C, HTML
Operating Systems: Unix and GNU/linux, MacOS, Windows.

EXPERIENCE

Student Intern — Summer 2018
Lawrence Livermore National Laboratory
- Developed code for nuclear cross section calculations using surrogate theory and data.
- Invited to present poster at CNR*18 annual international conference, LBNL September 2018.

Graduate Student Researcher — Winter 2017 - Present
Graduate Advisor: Professor Calvin Johnson.
High Performance Computing and Nuclear Physics Lab, Physics Department, San Diego State Univeristy.
- Conducted graduate research in computational quantum mechanics and nuclear structure.
- Peer-review publications in progress.
- Developed and worked with existing code in FORTRAN, OpenMP.
- Created shell scripts to optimize workflow.

Graduate Student Researcher — Summer 2017
San Diego State University Research Foundation
- Developed a proton-neutron interacting shell model code.

Teaching Associate — Fall 2016 - Present
San Diego State University
- Independently organized lectures and exams for introdcutory level physics lab course.