Evan Anders

Biographical Sketch
Department of Astrophysical and Planetary Sciences
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Professional Preparation

Whitworth University	Physics	BS, May 2014
	Math & Computer Science	Minors, May 2014
University of Colorado, Boulder	Astrophysics	PhD, Expected Graduation: 2019

Most Relevant Courses

Fluid Mechanics	Plasma Physics	Computational Physics	Software Engineering

Relevant Research Experience

- LIGO (Laser Interferometer Gravitational-wave Observatory), Hanford Observatory. NSF SURF Fellow, Summer 2013. Project: Spectral Line Monitoring Tool.
- Pacific Northwest National Laboratory (PNNL). DOE SULI Intern, Summer 2012. Project: Global Arrays in NumPy (GAiN).

Summary

Anders has a strong background in physics and computational methods. He learned professional software development techniques while working as part of a team creating an Android application for his undergraduate school newspaper. Thanks to his time at PNNL, he has developed and improved parallel algorithms and learned the difficulties intrinsic to large-scale computation. During his time at LIGO Hanford Observatory, he dealt with large data sets and wrote computational techniques for organization, storage, and visualization. His coursework has included numerous complex computational projects including an undergraduate simulation of interacting charged particles and a graduate implementation of Maxwell's equations.