Patrick J. **Lestrange**

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Skills

Languages	Python, Fortran77/90, C++, SQL, LaTeX, Perl
Tools	numpy, scikit-learn, pandas
Techniques	
Systems Admin	Maintained a 96 node compute cluster with >300 users in >20 academic departments

Experience

Insight Data Science
Seattle WA

Fellow
Jan. 2018 - present

- Did Stuff

University of Washington
Seattle WA

Graduate Researcher
Sept. 2012 - June 2017

- Helped implement a solver for interior eigenvalues in order to model high energy spectroscopies
- Investigated the abilities of various commonly used models to describe new phenomena (out of sample testing)
- Implemented several nonlinear optimization algorithms (DIIS, Newton-Raphson) to converge quantum mechanical wave functions in the open-source software package, Chronus Quantum
- Derived and implemented several schemes to better describe the symmetries of non-relativistic wave functions

Gaussian, Inc.
Wallingford, CT

Research Intern
Summer 2012 & Winter 2013

- Developed new algorithms to efficiently solve common quantum mechanical problems and implemented these techniques in a commercial software package, leading to several publications

Education

University of Washington
Seattle, WA

Ph.D. in Chemistry
Sept. 2012 - June 2017

York College of Pennsylvania
York, PA

B.S. in Chemistry
Sept. 2008 - May 2012

Honors & Awards

2017 **Excellence Award**, American Chemical Society Chemical Computing Group
2015 **Clean Energy Institute Graduate Fellowship**, University of Washington
2014 **Honorable Mention**, National Science Foundation Graduate Research Fellowship
2013 **Honorable Mention**, National Science Foundation Graduate Research Fellowship