

# Dallas Foster, Resume

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CONTACT INFORMATION Oregon State University (801)828-5740  
Department of Mathematics fostdall@oregonstate.edu  
<http://www.dallasfostermath.com>  
<https://github.com/fostdall/>

RESEARCH INTERESTS Numerical Analysis, Scientific Computing, Multi-Scale Modeling, Computational Fluid Dynamics, Inverse Problems.

EDUCATION **Department of Mathematics, Oregon State University**  
Ph.D. in Mathematics (in progress)  
Ph.D. Advisor: Juan Restrepo, (520) 990-4866, restrepo@math.oregonstate.edu  
GPA: 3.85  
**Department of Mathematics, University of Utah**  
B.S. in Mathematics (2016)  
Math GPA: 4.0  
B.S. in Political Science, (2016)  
Overall GPA: 3.93

RELEVANT JOB EXPERIENCE 2018- Graduate Research Assistant  
Los Alamos National Laboratory, Los Alamos New Mexico  
Perform Bayesian inference for large scale global climate statistics. Parallelize code for high performance computing.  
Reference: Nathan Urban (505) 665-7543  
2014-2016 Undergraduate Research Assistant  
University of Utah, Salt Lake City, Utah  
Develop Partial Differential Equations for Arctic Sea Ice.  
Implement robust forward and inverse solvers for simulation.  
Reference: Kenneth M. Golden golden@math.utah.edu

RELEVANT SKILLS Programming Languages 6 Years Experience with Python, MATLAB, Mathematica, R  
3 Years Experience with C, C++, Fortran, FEniCS (Finite Element)  
2 Years Experience with OpenMP, MPI, OpenCL, Intel MKL  
Misc. Software: Stan, Git, Docker, GMSH, Atom, Visual Studio

SELECTED COURSEWORK  Linear Algebra  Numerical Linear Algebra  
 Ordinary Differential Equations  Numerical ODEs and PDEs  
 Partial Differential Equations  Computational Methods of Statistical Physics  
 Finite Element Analysis  Parallel Programming  
 Computational Fluid Dynamics  Non-convex Optimization

HONORS AND AWARDS 2012-2016 Presidential Scholarship, University of Utah  
2016-2017 Provost Distinguished Scholarship, Oregon State University  
2016- ARCS (Achievement Rewards for College Scientists) Foundation Scholar