

Dallas Foster, CV

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, Multi-Scale Modeling, Inverse Problems, Scientific Computing.

EDUCATION **Department of Mathematics, Oregon State University**

Ph.D. in Mathematics (in progress)

Department of Mathematics, University of Utah

B.S. in Mathematics (2016)

Math GPA: 3.75

B.S. in Political Science, (2016)

Overall GPA: 3.93

PUBLICATIONS C. Strong, D. Foster, E. Cherkaev, I. Eisenman, K.M. Golden, *On the definition and analysis of marginal ice zone width: applying insights from analysis of eccentric annuli*, submitted to J. Applied Meteorology and Climatology.

MATHEMATICAL RESEARCH EXPERIENCE 2015 Measuring and Defining Width of the Marginal Ice Zone
Advisor: K. Golden, Dept. of Mathematics,
C. Strong, Dept. of Atmospheric Science, University of Utah.
2015-2016 Solving Inverse Problem for the diffusivity of Sea Ice.
Advisor: K. Golden, C. Strong, E. Cherkaev
University of Utah.

CONFERENCE TALKS *On the definition and analysis of marginal ice zone width: applying insights from analysis of eccentric annuli*, Abstract Accepted to National Conference on Undergraduate Research (2016)

TEACHING EXPERIENCE Fall 2015 Supplemental Instructor, College Algebra
Spring 2016 Supplemental Instructor, Precalculus
Fall 2016 Graduate Teaching Assistant, Elementary Functions
Winter 2017 Graduate Teaching Assistant, Differential Calculus

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

SELECTED
COURSEWORK

- Real Analysis
- Complex Variables
- Linear Algebra
- Ordinary Differential Equations
- Partial Differential Equations
- Finite Element Analysis
- Numerical Analysis
- Numerical ODEs and PDEs
- Probability
- Computational Methods of Statistical Physics
- Mathematics and Climate

JOB
EXPERIENCE

- 2013-2016 Math Tutor/Curriculum Advisor
 Mathnasium, Cottonwood Heights Utah
 Develop Lesson Plans and Instruct Students
 Reference: Dave Kaplan (801) 679-1588
- 2015-2016 Supplemental Instruction Leader
 University of Utah, Salt Lake City, Utah
 Hold additional sessions for College Algebra and Precalculus.
 Reference: Leslie Giles-Smith (801) 581-5158
- 2014-2015 Grader
 Department of Mathematics, University of Utah
 Reference: Aryn DeJulis (801) 585-9478

RELEVANT
SKILLS

Programming Languages C, C++, Julia, MATLAB, Mathematica, Python, Fortran, L^AT_EX, R