

Dallas Foster, CV

CONTACT INFORMATION	Oregon State University Department of Mathematics	(801)828-5740 fostdall@oregonstate.edu http://www.dallasfostermath.com  https://github.com/fostdall/
RESEARCH INTERESTS	Uncertainty Quantification, Numerical Analysis, Scientific Computing, Multi-Scale Modeling, Inverse Problems.	
EDUCATION	Department of Mathematics, Oregon State University Ph.D. in Mathematics (in progress) GPA: 3.8 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	
PUBLICATIONS	C. Strong, D. Foster, E. Cherkaev, I. Eisenman, K.M. Golden, On the definition and analysis of marginal ice zone width, <i>Journal of Atmospheric and Oceanic Technology</i> , Vol. 34, 2017. C. Victor, B. Frost, D. Foster, J.M. Restrepo, Gradient Sensing via Cell Communication, in preparation , 2017.	
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	<i>On the definition and analysis of marginal ice zone width: applying insights from analysis of eccentric annuli</i> , Abstract Accepted to National Conference on Undergraduate Research (2016) <i>Gradient Sensing via Cell Communication</i> , 2017 SIAM Pacific Northwest Regional Conference.	
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
	Summer 2017	Instructor, Integral 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
- Computational Fluid Dynamics
- Numerical Analysis
- Numerical ODEs and PDEs
- Probability
- Computational Methods of Statistical Physics
- Mathematics and Climate
- Uncertainty Quantification

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
- Packages & Software FEniCS, OpenMP, Paraview, Git, Docker, GMSH