## Patrick E. Donaghue

Oregon State University Department of Mathematics Kidder Hall 368, 2000 SW Campus Way, Corvallis Oregon 97331-4605.		donaghup@oregonstate.edu donaghue@ncmath.net www.ncmath.net Phone: 216.952.7904
Education	<b>Oregon State University</b> Masters of Science in Mathematics, expected July 2019	
	<b>Cleveland State University</b> Bachelors of Science <i>sum cum laude</i> in Mat	hematics, received May 2017.
Research Experience	<ul> <li>Mathematics, Oregon State University</li> <li>Advisor: Enrique Thomann</li> <li>Project: Non-uniqueness of Weak Navier-Stokes Solutions.</li> <li>An overview of modern techniques and research in creating non-unique weak Naiver-Stokes solutions.</li> </ul>	
	Mathematics, Cleveland State Universe Advisor: Steven Gubkin Project: Stokes Theorem and Differential F An introduction to differential forms as a and limiting approximations. Elementary te Homology and multi-variable calculus used.	orms consequence of Stokes theorem
Teaching	Mathematics, Oregon State University Course Instructor (MTH 103) Algebraic Reasoning, 18 stu (MTH 231) Discrete Mathematics, 14 st Recitation Instructor (MTH 256) Differential Equations, 108 st (MTH 252) Integral Calculus, 108 studet (MTH 112) Trigonometry, 105 students,	idents, Fall 2018. sudents, Summer 2018. students, Spring 2018. ents, Spring 2018.

Presentations	<ul><li>Cleveland State University Annual P.M.E. and S.P.S. Meeting Fixed Point Iteration, Fractals, and the Marina-Silver Algorithm.</li><li>December 1, 2016.</li><li>An hour long presentation on fixed point iteration with an application to computing fractals. A back tracking method and Marina-Silver Algorithm were also demonstrated. Roughly 100 people in attendance.</li></ul>	
	Cleveland State University Math Club A Mollification Application: Power Grid Risk Modeling March 15, 2016.	
	Overview of mollification, its properties, and an application to estimating derivatives of rough data to identify risk in power grid operation. 13 people in attendance.	
Conference Participation	<b>Oregon Number Theory Days</b> , Portland State University, April, 2018.	
	Differential Equations and Dynamical Systems, Miami University,	
	November, 2016. Annual Meeting of the Ohio MAA, Sinclair Community College,	
	April, 2017.	
	<ul><li>MathFest, Youngstown State University, February, 2017.</li><li>Centennial Meeting of the Ohio MAA, Ohio Northern University, April, 2016.</li></ul>	
Employment History	<b>Graduate Teaching Assistant</b> Oregon State University/Mathematics Department, September 2017 - Present.	
	Duties: Tutoring, Grading, Office Hours, Teaching.	
	<b>Private Tutor</b> August 2014 - Present.	
	Subject Areas: Mathematics, Physics, Chemistry.	
	Tutor	
	Minneapolis Community and Technical College, August 2014 - 2015. Subject Areas: Mathematics, Chemistry, Biology, Music Theory.	
Computer Languages	Python, C++, Matlab, Visual Basic, HTML, ${\rm IAT}_{\rm E}\!{\rm X}.$	