

Daniel Taylor

CONTACT INFORMATION	<code>dantaylor688@gmail.com</code> <code>http://dantaylor688.github.io</code>
RESEARCH INTERESTS	Applied mathematics
EDUCATION	Eastern Michigan University M.A. in Mathematics, April 2013 <ul style="list-style-type: none">• Thesis Topic: <i>Optimal Stopping with Applications to Mathematical Finance</i>• Advisor: Ovidiu Calin B.S. in Mathematics, April 2011 B.S. in Physics, April 2011
UNPUBLISHED REPORTS	D. Taylor, <i>Optimal Stopping with Applications to Mathematical Finance</i> , Masters Thesis (December 2012). D. Taylor, <i>An Electric Circuit with a Stochastic Source</i> , Summer research project report, (July 2011). D. Taylor, <i>Momentum-Multiplicity Correlations in Relativistic Heavy Ion Collisions</i> , Summer Research Experience for Undergraduates Final Report, (August 2010).
PRESENTATIONS	<i>Confidence Interval Estimation Using the Bootstrap Technique</i> , Graduate Research Fair, Eastern Michigan University. (March 2013) <i>Optimal Stopping and Free Boundary Problems with Applications to Mathematical Finance</i> , Colloquium, Eastern Michigan University. (December 2012) <i>The Effect of a Stochastic Source on the Equations Governing Current in an Electrical Circuit</i> , Colloquium, Eastern Michigan University. (April 2012) <i>Distinguishing Effects on Momentum Distributions in High Energy Nuclear Collisions</i> , Undergraduate Symposium, Eastern Michigan University. (March 2011) <i>High Altitude Ballooning: Physics from 20 Miles Up</i> , Undergraduate Symposium, Eastern Michigan University. (March 2011)

TEACHING EXPERIENCE	Fall	2014	Lecturer, Calculus I
	Fall	2012	Lecturer, Intermediate Algebra
	Winter	2012	Lecturer, Intermediate Algebra
	Fall	2011	Lecturer, Intermediate Algebra
HONORS AND AWARDS	2010–2011	Robert Silver Award – Outstanding Scholarship in Modern Physics Eastern Michigan University	
	2009–2010	Harry L. Smith Scholarship – Department of Physics Eastern Michigan University	
GRADUATE COURSEWORK	<input type="checkbox"/>	Real Analysis	<input type="checkbox"/> General Topology
	<input type="checkbox"/>	Linear Algebra	<input type="checkbox"/> Categorical Data Analysis
	<input type="checkbox"/>	Fourier Analysis	<input type="checkbox"/> Stochastic Calculus
	<input type="checkbox"/>	Optimization Theory	
UNDERGRADUATE PHYSICS COURSEWORK	<input type="checkbox"/>	Intermediate Mechanics	<input type="checkbox"/> Thermodynamics
	<input type="checkbox"/>	Intermediate Electrodynamics	<input type="checkbox"/> Optics
SCIENTIFIC RESEARCH EXPERIENCE	2016–Present	Autonomous vehicle dynamics and mapping. Manager: D. Clifford, General Motors Inc.	
	2012–2014	Solving inverse problems related to atmospheric measurements using LIDAR. Advisor: D. Johnson, Chief Scientist, Michigan Aerospace Corporation.	
	2010	Summer Research Experience for Undergraduates. Advisor: S. Gavin, Department of Physics, Wayne State University.	
RESEARCH REFERENCES	David Johnson , Michigan Aerospace Corporation, (734)975-8777, djohnson@michaero.com		
	Matthew Lewis , Michigan Aerospace Corporation, (734)975-8777, mlewis@michaero.com		
	Ovidiu Calin , Eastern Michigan University, (734)487-1292, ocalin@emich.edu		
TEACHING REFERENCE	Chris Gardiner , Eastern Michigan University, (734)487-1444, cgardiner@emich.edu		