Daniel Taylor

Contact
Information

Stratos Inc
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Research
Interests

Probability theory and applications to compressive sensing and statistical learning theory.

Education

Eastern Michigan University

M.A. in Mathematics, April 2013

- Thesis Topic: *Optimal Stopping with Applications to Mathematical Finance*
- Advisor: Ovidiu Calin

B.A. in Mathematics, April 2011

B.A. in Physics, April 2011

Unpublished
Reports

D. Taylor, *Optimal Stopping with Applications to Mathematical Finance,* Masters Thesis (December 2012).

D. Taylor, *An Electric Circuit with a Stochastic Source,* Summer research project report, (July 2011).

D. Taylor, *Momentum-Multiplicity Correlations in Relativistic Heavy Ion Collisions,* Summer Research Experience for Undergraduates Final Report, (August 2010).

Presentations

Confidence Interval Estimation Using the Bootstrap Technique, Graduate Research Fair, Eastern Michigan University. (March 2013)

Optimal Stopping and Free Boundary Problems with Applications to Mathematical Finance, Colloquium, Eastern Michigan University. (December 2012)

The Effect of a Stochastic Source on the Equations Governing Current in an Electrical Circuit, Colloquium, Eastern Michigan University. (April 2012)

Distinguishing Effects on Momentum Distributions in High Energy Nuclear Collisions, Undergraduate Symposium, Eastern Michigan University. (March 2011)

High Altitude Ballooning: Physics from 20 Miles Up, 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

GRADUATE COURSEWORK

❑ Real Analysis   ❑ General Topology
❑ Linear Algebra   ❑ Categorical Data Analysis
❑ Fourier Analysis   ❑ Stochastic Calculus
❑ Optimization Theory

SCIENTIFIC RESEARCH EXPERIENCE

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.

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`