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.S. in Mathematics, April 2011
B.S. 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UNPUBLISHED REPORTS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

2009–2010 Harry L. Smith Scholarship – Department of Physics
Eastern Michigan University

Graduate Coursework

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

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