

Curriculum Vitae

Stephen M. Taylor

CAMPUS ADDRESS:
Department of Mathematics
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EDUCATION: **Phd.** (2011?) SUNY at Stony Brook, Mathematics: Current GPA: 4.00
 M.S. 2007 Brigham Young University, Mathematics: GPA 4.00
 Thesis: On Connections Between Univalent Harmonic Functions,
 Symmetry Groups, and Minimal Surfaces.
 M.S. 2007 Brigham Young University, Physics: GPA 3.98
 Thesis: On Stability and Evolution of Solutions in General Relativity
 B.S. 2005, Brigham Young University, Mathematics

TEACHING: **Instructor** (full control over course)
 BYU REU course on Lie Symmetry Analysis, Summer 2007
 Math 112: Calculus I (5 sections), Fall, 2006
 Math 112: Calculus I, Winter, 2006
 Math 102: Quantitative Reasoning, Fall, 2005

Teaching Assistant (partial control over course)
 Math 343: Linear Algebra, Summer 2006
 Math 112: Calculus I, Summer 2006
 Math 113: Calculus II, Fall 2004: (taught two recitation courses per week,
 wrote quizzes and tests, graded homework)
 Math 343: Linear Algebra, Fall 2004: (graded homework)
 Math 151: Calculus I (Miami University of Ohio), Spring 2003: (graded homework)
 Math 102: Intermediate Algebra (Miami University of Ohio), Spring 2003: (graded
 homework)

CONFERENCES/SEMINARS/MISC.:

Attended and spoke at a summer school on Geometric Flows and Geometric Operators in Pisa, Italy from May-July 2009
Attended a workshop at Banff on Geometric Evolution Equations, April 2008
Attended the 5th Simons Workshop in Mathematics and Physics, Summer 2007
Attended Thurston's Geometry and the Imagination conference at Princeton, Summer 2007
Attended the 3rd Symposium on Analysis and PDEs at Purdue, Summer 2007
Attended a conference on Lorentzian Geometry in Santiago de Compostela, Spain Winter 2007
Attended a workshop on geometric flows on real and complex manifolds, Fall 2006 at the MSRI at Berkeley
Attended the Third Summer School in Gravitational Wave Astronomy in South Padre Island, Texas, Summer 2006
Attended Third Workshop on Planar Harmonic Mappings in Haifa, Israel, Jan 06
Attended MSRI Conference on Mathematical Graphics at Reed College, Summer 2005

PAPERS:

(1) (with A. Petersen) Locally Isometric Families of Minimal Surfaces; BJDG, Vol 13, No. 2, p.80 (2007)

- [arxiv: math.DG/0609654]
- (2) (with S. Glasgow) A Novel Reduction of the Simple Asian Option, Nov 09 IJTAF
[arxiv: math.DG/0609654]
- (3) (with M. Mateljevic) Asymptotic Curvature Bounds for Conformally Flat Metrics on the Plane (in preparation)
- (4) (with S. Glasgow and J. Vecer) Exact Pricing Formula for Asian Options (in preparation)

HONORS: Awarded three year RTG graduate research fellowship in geometry/topology/physics
 at SUNY Stony Brook, DMS-0502267, 2007-2010.
 Awarded physics research support from a NSF grant PHY-0502218, 2006-2007
 Awarded a Graduate Mathematics Teaching/Research Assistantship, 2005-2007
 Awarded a Graduate Physics Research Assistantship, 2006-2007
 Awarded multiple undergraduate scholarships which covered all of tuition, 2003-2005

SKILLS: Proficient with Mathematica, \LaTeX , HTML/CSS. Familiar with MATLAB, C, C++,
 Fortran, PovRay.