

# Daniel Mckenzie

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May 13, 2014  
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## About Me

- **Date of Birth**  
*29 April 1989*
- **Place of Birth**  
*Nelspruit, South Africa*

## Education

- **University of Georgia** Athens, Georgia, United States  
*Ph.D (Mathematics)* 2013-present
- **University of Cape Town** Cape Town, South Africa  
*M.Sc (Mathematics)* 2012-present
  - Thesis: On Uniformization of Compact Kähler Manifolds with Negative First Chern Class by Bounded Symmetric Domains (Supervisors: Dr. K. Hughes, Dr. R. Martin)
  - Thesis is currently being graded
- **University of Cape Town** Cape Town, South Africa  
*B.Sc(honours) Applied Maths* 2010
  - Thesis: Convexity conditions in the direct methods in the calculus of variations (Supervisor: Dr F. Ebobisse)
  - Graduated with a first-class pass
- **University of Cape Town** Cape Town, South Africa  
*B.Sc Mathematics/Applied Mathematics* 2007 – 2009
  - Obtained degree with distinction and distinctions in Mathematics and Applied Maths.
  - Dean's Merit list every year
- **Hudson Park High School** East London, South Africa  
*National Senior Certificate* 2003 – 2006
  - Obtained Senior Certificate with distinction
  - School Dux

## Awards, Grants & Honours

NRF Doctoral Scholarship for Study Abroad	2014
DAAD short term research exchange to the University of Bayreuth	2013
DAAD-NRF joint masters bursary	2012
UCT Council Merit Scholarship	2010
NRF Honours Bursary	2010
Jakob Burlak Memorial Trust Scholarship	2009
Science Faculty Scholarship	2007,2008,2009

## Teaching and Relevant Work Experience

- **(MATH2200)** University of Georgia  
*TA* 2014  
 – Differential Calculus
- **Mathematics 2 (MAM2000)** University of Cape Town  
*Course Tutor* 2012  
 – Linear Algebra, Multivariate Calculus
- **Mathematics 1 (MAM1000)** University of Cape Town  
*Course Tutor* 2012  
 – Differential and Integral Calculus.
- **Introduction to Applied Maths (MAM1043)** University of Cape Town  
*Course Tutor* 2010  
 – Introduction to ODEs and dynamical systems.
- **ISS International** Stellenbosch, South Africa  
*Student Research Assistant* June-July 2009  
 – Student intern at ISS international, a seismic technologies company  
 – Worked on a novel algorithm for calculating s- and p- wave velocities through rock and developed an application in Python implementing this algorithm  
 – Contact: Dr Richard Lynch (Business Development Manager): richard@issi.co.za
- **SHAWCO** Cape Town, South Africa  
*Volunteer Training Coordinator* February 2011, June 2011  
 – Part of a team that developed training material for new volunteers at SHAWCO, a large NGO affiliated with the University of Cape Town  
 – Coordinated training workshops and gave presentations on effective tutoring.  
 – Contact: James Lee Thorp: info@intuitiontutors.co.za or Rachel Mazower (head of SHAWCO 2011): rachelmazower@gmail.com

## Other Services

- **SHAWCO** Kensington, Cape Town  
*Deputy project leader - KenSMART project* 2012  
 – Deputy project leader for a project providing free tuition in Maths and Science in an underprivileged area of Cape Town  
 – In charge of developing curricula for Maths and Science for the tenth and eleventh Grade.  
 – Led tutorial sessions once a week.
- **Intuition Outreach** Khayaletsha, Cape Town  
*Programme coordinator* 2010  
 – (together with James Lee Thorp) Set up an independent free tuition programme for learners at an underprivileged high school.  
 – Developed curriculum and worksheets and in charge of tutor liaison  
 – Led tutorial sessions once a week.

## Other Relevant Skills

- Markup Languages
  - L<sup>A</sup>T<sub>E</sub>X
- Programming Languages
  - Python
- Specialized Software
  - MATLAB