

Daniel Mckenzie

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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) 2012-2014
 - Thesis: On Uniformization of Compact Kähler Manifolds with Negative First Chern Class by Bounded Symmetric Domains (Supervisors: Dr. K. Hughes, Dr. R. Martin)
 - Degree awarded with distinction.
- **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

- **(MATH2250)** University of Georgia
Instructor of Record 2015
 – Calculus 1
- **(MATH1113)** University of Georgia
Instructor of Record 2014
 – Precalculus
- **(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
 - \LaTeX
- Programming Languages
 - Python
- Specialized Software
 - MATLAB