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.
  - Nominated by the mathematics department for the South African Society for the Advancement of Science's annual medal for most outstanding Masters Thesis
- **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 / 2015
  Instructor of Record
  - Calculus 1

- **(MATH1113)** — University of Georgia / 2014
  Instructor of Record
  - Precalculus

- **(MATH2200)** — University of Georgia / 2014
  TA
  - Differential Calculus

- **Mathematics 2 (MAM2000)** — University of Cape Town / 2012
  Course Tutor
  - Linear Algebra, Multivariate Calculus

- **Mathematics 1 (MAM1000)** — University of Cape Town / 2012
  Course Tutor
  - Differential and Integral Calculus.

- **Introduction to Applied Maths (MAM1043)** — University of Cape Town / 2010
  Course Tutor
  - Introduction to ODEs and dynamical systems.

- **ISS International** — Stellenbosch, South Africa / June-July 2009
  Student Research Assistant
  - 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 / February 2011, June 2011
  Volunteer Training Coordinator
  - 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 / 2012
  Deputy project leader - KenSMART project
  - 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 coordinater   *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