# TIM WOLFF-PIGGOTT

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#### - Education & Training -

## University of Cape Town

Masters in Advanced Analytics and Decision Sciences

February 2015 to February 2017

Mobile: 084 986 1048

Thesis: Identifying Predictors of Evolutionary Dispersion with Phylogeographic Generalised Linear Models

Supervisors: Dr Miguel Lacerda, Dr Ben Murrell (University of California, San Diego)

Masters programme by coursework and dissertation. Selected coursework included: Machine Learning, Advanced Regression, Simulation and Optimisation, C++ Programming for Scientists and Engineers, Probability Theory. Coursework awarded with distinction. Thesis currently under examination.

BSc Honours in Mathematical Statistics (First Class)

February 2014 to November 2014

Thesis: An Application of Machine Learning to Stock Differentiation in the South African Fisheries

Supervisors: Assoc. Prof. Ian Durbach, Dr Melvin Varughese

Selected coursework in statistics included Analytics, Theory of Statistics, Time Series, and Multivariate Statistics. Completed multiple pure mathematics honours courses: Measure Theory, Topology and Functional Analysis.

Bachelor of Science in Mathematical Statistics

February 2011 to November 2013

Average Grade: 74.73/100

## - Scholarships & Awards

Member of global 2 <sup>nd</sup> place team for Barclays Data Wars Hackathon Class medal for Masters degree coursework	2015
Honours degree awarded in first class	2014
Dean's Merit List (weighted average mark $> 75\%$ )	2013
Commerce Faculty scholarship	2012
Dean's Merit List	
Harry Allschwang entrance scholarship	2011
Commerce faculty scholarship	
Class medal for Evidence-based Management	
Dean's Merit List	

### Experience -

#### University of Cape Town

Statistics Tutor

July 2016 to October 2016

Tutored the third-year statistics major course STA3043S: Decision Theory and Generalised Linear Models, covering the foundations of Bayesian statistics and advanced modelling applications in R.

Mathematics Tutor

February 2016 to October 2016

Tutored the second-year pure mathematics major course MAM2000W, covering modules in linear algebra and advanced calculus. Helped to lead whiteboard workshops for the first-year pure mathematics major course MAM1000W.

Head Statistics Tutor

February 2015 to November 2015

Led a team of 24 tutors for the first year statistics major courses STA1000F and STA100S. The courses cover the foundations of statistical inference and regression, and use Excel as a platform for simulation and data manipulation. Coordinated and presented course material in weekly long workshops.

Course Coordinator

June 2015 to July 2015

Ran the online component of STA1000L winter school- responsible for the operation of the Vula site, setting tests and managing the forum for course material queries.

Statistics Tutor

July 2014 to October 2014

Tutored the third-year statistics major course STA3043S: Decision Theory and Generalised Linear Models.

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— SKILLS	

## Programming and Technical

Extensive exposure & advanced proficiency in:

- Python
- R
- Excel
- LATEX

Intermediate proficiency in:

- C++
- Julia
- SQL
- STATA
- VBA

## **Problem Solving**

- Multiple projects completed solving novel data-based problems building analytical methods and tailoring analyses to specific scenarios.
- Integration of coursework in mathematics, applied statistics and computer science.
- Collaborative engineering of machine learning solutions during hackathon.

## Teamwork and Interpersonal

- Adaptation of statistical problem sets for presentation with teams of six tutors.
- Participation in weekly feedback and input from team of tutors.
- Delegation of responsibilities, planning and group brainstorming within student organising committees.

#### Communication

- Presentation of course material to groups of 200 students in weekly statistics workshops.
- Management of for a and email correspondence for student queries. Intermediary between team of tutors and convenor.

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University of Toronto on Coursera – Neural Networks for Machine Learning	2017	
Big Data University – Deep Learning with Tensor Flow	2017	
University of Michigan on Coursera – Introduction to Data Science in Python		
University of Cape Town on Coursera – Julia Scientific Programming (with honours)		
MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS  South African Statistical Association – Full member  Fe	ebruary 2015 to Present	
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Reclaim The City – Campaign supporter and volunteer

February 2016 to Present

Reclaim The City advocates for state-subsidised, affordable housing development in the Cape Town city bowl, and protects the rights of the poor to homes and remaining near the city.

Workers and Community Solidarity Fund – Organising committee member — October 2015 to Present Started at the University of Cape Town, WCSF fundraises to support worker and community activism.

	REFEREES —	
Ian Durbach	Associate Professor, Statistics, UCT African Institute for Mathematical Sciences	ian.durbach@uct.ac.za
Kenneth Rafel	Senior Lecturer, Mathematics, UCT	kenneth.rafel@uct.ac.za