#### Bram Schönfeldt



now

2019

Honours in Applied Mathematics

Graduated

小

2017

2016

2012

2005

1998

UC Berkeley (6 month exchange)

University of Cape Town

Matriculated

St. John's College

#### Personal Statement

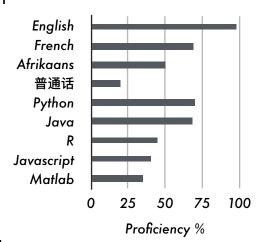
I am someone with both analytical and artistic aptitude, curious about the intersection between these fields. I am pursuing an honours degree in Applied Mathematics, exploring topics such as the interpretability of machine learning, data visualisation techniques, and modeling stochastic processes.

Aside from visual communication, I like to articulate myself through various languages, and sounds. I am a classical guitarist, and amateur composer.

When not studying or working, I can be found cooking, climbing or surfing.

### abram.schonfeldt@gmail.com (+27) 81 807 5600

# Mastery of Languages



Skills

#### **Achievements**

- NRF Bursary for Honours 2020
- Graduated with Distinction (BSc Computer Science and Applied Mathematics) 2020
- Selected for exchange to UC Berkeley
- Dean's merit list 2017, -18, -19
- Chinese class medal 2018
- Science faculty scholarship 2017, -18, -19
- Top 5% of learners in 6 or more subjects for NSC (IEB) 2016
- Award for outstanding service to the Johannesburg Junior Council 2016
- Grade 8 guitar with distinction 2016

- Machine learning using Python and TensorFlow 2
- Object-oriented programming in Java
- Web application development
- Numerical methods in Matlab
- Version control with Git
- Typsetting with LaTex
- Code 10 driver's license
- Composition and music production with Ableton Live
- Sketching, painting, animation, photography

84



Belgium (3 months)

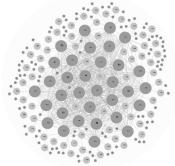
### University of Cape Town (BSc) Marks

	Key:	course code mark	Example:	(MAM)1000 82(%)
	Year	Mathematics (MAM)	Computer Science (CSC)	Other
Emmarentia Primary	2019	30 <i>4</i> 0 81	3003 80	STA2007 (Statistics) 85
			3002 79	STA 1000 (Statistics) 94
	2018	20 <i>47</i> 86	2002 73	MUZ2239 (Guitar) 75
Switzerland (3 months)		200 <i>4</i> 79	2001 79	INF2009 (System analysis & design) 75
	2017	1000 82	1016 87	SLL1122(Chinese) 90
		1044 100	1015 88	SLL1121 (Chinese) 89
Born Johannesburg		1042		MUZ1239(Guitar)

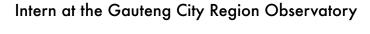
81

### **Select Graphics**

#### Work Experience



2019



Many people have to make the difficult decision to live away from their families. Using regression analysis, I explored how income, sex, population group and other factors impact the proportion of a person's dependents that live with them.

2018 Feeder zone policies impact the quality of education a student can have access to. As my first time working at GCRO, I had to first come to

terms with working with a big dataset. I then created visualisations of the implications of changes to feeder zone policies. Tutor for Computer Science, Mathematics and Statistics

2019 - present I am university employed tutor and have tutored the 2nd and 3rd year Computer Science courses, the multivariable calculus course and the introductory Statistics course. Through tutoring I have been made more aware of the uneven backgrounds that students at the university have. This experience has also helped me revise my own knowledge, and have it explored from new perspectives.



2018

**Physical Sciences** 

Advanced Programme English

During my exchange I was fortunate enough to experience co-operative living. My role was as a head chef, working with three other sous-chefs to set and create predominantly vegetarian meals for over 50 people. This made me aware of the pressures of cooking at scale, gave me experience in using sustainable produce, and helped me develop the skills necessary to inspire a team. Culinary highlights include butternut ravioli, tacos, biryani and malva pudding.

Created and applied stencils for the RCVA SA tour 2015

In 2015, the RVCA skate team toured South Africa. For the Johannesburg leg of the tour, I created portraits of prominent hip-hop artists and developed a modular stencil system to create large-scale lettering. The portraits were applied to ramps in a pop-up skatepark in Maboneng and a large banner was created with the words, "Welcome RVCA USA". This was my first paid job.





#### References

## **GCRO** Dr Alexandra Parker alexandra.parker@gcro.ac.za

**Applied Mathematics** Dr Christian Rohwer christian.rohwer@uct.ac.za

#### Matric NSC final marks (IEB) SAT Scores (2017) Afrikaans First Additional Language 86 SAT Reading & Writing 780 **English Home Language** 92 Math 790 French Second Additional Language 95 Overall 1570 Life Orientation 85 Subject tests **Physics** 790 **Mathematics** 98 **Mathematics** 800 Music 92

92

81