

# Robert Andrew Spencer

## Curriculum Vitae

### PERSONAL DATA

DATE OF BIRTH	27 November 1994
NATIONALITY	South Africa
ADDRESS	Trinity College Cambridge CB2 1TQ United Kingdom
PLACE OF BIRTH	Cape Town   South Africa
TELEPHONE	+44 (0)7919 312282
EMAIL	<a href="mailto:general@robertandrewspencer.com">general@robertandrewspencer.com</a>
GITHUB	<a href="https://github.com/rspencero1">rspencero1</a>



### EDUCATION

Reading	PhD in Pure Mathematics at the <b>University of Cambridge</b>
2018	MASt in Pure Mathematics from <b>University of Cambridge</b>
2016	B.Sc. (Hons) (Mathematics) from <b>University of Cape Town</b>
2015	B.Sc. (Mathematics, Applied Mathematics and Physics) from <b>University of Cape Town</b> <i>awarded with distinction in Applied Mathematics, Mathematics, Physics and the degree with distinction.</i>
2012	Matriculation from <b>Westerford High School</b> Online Courses from MITx and EdX

### UNIVERSITY ACHIEVEMENTS

2015	Dean's Merit List MAM3040W Class Medalist PHY3021F Class Medalist PHY3022S Class Medalist
2014	Dean's Merit List PHY2014F Class Medalist
2013	Dean's Merit List PHY1004F Class Medalist CSC1015F Top 3

### COMPUTER SKILLS

LANGUAGES	Python, C, C++ , SQL, HTML, css, bash, Delphi Pascal, Mathematica
OS'S	Ubuntu Linux , Microsoft Windows
APPLICATIONS	git, <del>TeX</del>
OTHER	Algorithm design/analysis, system administration

## SCHOLARSHIPS

2018	Trinity Internal Graduate Studentship PhD Studentship	Trinity College DPMMS Cambridge
2017	Skye Foundataion Scholarship Skye Cambridge Scholarship	Skye Foundation Cambridge Trust
2016	Innovation Scholarship Roderick Noble Scholarship	National Research Foundation University of Cape Town
2015	Vice Chancellor's Scholarship Science Faculty Scholarship	University of Cape Town University of Cape Town
2014	Vice Chancellor's Scholarship Science Faculty Scholarship Twamley December Scholarship	University of Cape Town University of Cape Town University of Cape Town
2013	Vice Chancellor's Scholarship Computer Science Department Entrance Scholarship Allan Gray Orbis Scholarship	University of Cape Town University of Cape Town

## WORK EXPERIENCE | REFERENCES AVAILABLE ON REQUEST

2018 — Present	<b>Teaching</b> Undergraduate Supervisions — <a href="#">DPMMS Cambridge</a>
2019	<b>Contract Software Developer</b> Fault Detection Data Analysis — <a href="#">Kopernio</a>
2017 — 2018	<b>Firmware Contract</b> Avionic radio firmware — Southwestern Electronics
2017	<b>Software Development Intern</b> Android UI Systems ( <a href="#">Litho</a> ) — <a href="#">Facebook LTD</a>
2016	<b>Undergraduate Mathematics Tutor</b> — <a href="#">University of Cape Town</a>
2015	<b>Software Development Intern</b> — <a href="#">Amazon Web Services</a>
2014 — 2017	<b>Contract Web Developer</b> Backend system design Software development   front- and back-end Database design — <a href="#">Playwhoo.com</a>
2013	<b>Contract Software Developer</b> Metrological DBMS development — <a href="#">InterMet South Africa</a>
2013	<b>Contract Software Developer</b> System design and development Database design — Docubot Document Management Software

## LANGUAGES

---

ENGLISH	Mother Tongue
AFRIKAANS	Basic
ESPERANTO	Basic

## INTERESTS AND ACTIVITIES

Recreational Programming; Piano; Archery; Terrain Simulation; Competitive Coding Training; Reading; Electronics; Hiking

## EXTRA-CURRICULAR ACHIEVEMENTS

### AND RESPONSIBILITIES | REFERENCES AVAILABLE ON REQUEST

---

2016	South African International Olympiad in Informatics Team Coach South African International Olympiad in Informatics Team Leader Base leader of Electronics Base, Cederberg Senior Scout Adventure
2015	South African International Olympiad in Informatics Team Coach South African International Olympiad in Informatics Deputy Team Leader
2014	South African International Olympiad in Informatics Deputy Team Leader South African International Olympiad in Informatics Team Coach Base leader of Electronics Base, Cederberg Senior Scout Adventure Modern Mathematics International Summer School for Students
2013	South African December Mathematics Training Camp Coach
2012	Base staff of Electronics Base, Cederberg Senior Scout Adventure Western Cape Education Department Public Speaking Trophy Google Code-In
2009 — 2012	Organising committee member, COMPUTERS ROBOTS AND ELECTRONIC DESIGNS Club
2011	Publication in English Alive
2009	Founder of Westerford COMPUTERS ROBOTS AND ELECTRONIC DESIGNS Club

## HIGH SCHOOL ACHIEVEMENTS

---

2012	Honikman Honour Award Academic Honours Prefect Best One Act Play Script Goldblatt Play Characterisation Award Noel Taylor Public Speaking Trophy Van Vlaanderen Trophy for Highest Marks in Physical Science and Mathematics Grade Prize for Physical Science, Advanced Programme Mathematics, English, Geography Service to COMPUTERS ROBOTICS AND ELECTRONIC DESIGNS Club (founder) Mathematics Tutor Claremont High School
2011	Best One Act Play Director Librarian

## OLYMPIADS

2016	ACM International Collegiate Programming Contest (Thailand) Standard Bank IT Challenge NSUCRYPTO International Students' Olympiad in Cryptography	— Winning Team Western Cape Winning Student
2015	ACM International Collegiate Programming Contest (Morocco) Standard Bank IT Challenge	— Winning Team Nationally and Western Cape
2014	International Mathematics Competition (Bulgaria) Standard Bank IT Challenge	Second Prize Winning Team Western Cape
2013	International Olympiad in Informatics (Australia) International Mathematics Competition (Bulgaria) South African Tertiary Mathematics Olympiad	Bronze Medal Honourable Mention Winner (undergraduate section)
2012	International Mathematics Olympiad (Argentina) International Olympiad in Informatics (Italy) South African Computer Olympiad UCT Mathematics Competition Mintec Science Olympiad SAASTA Science Olympiad Inter-Provincial Mathematics Olympiad	Honourable Mention — Winner Winner Western Cape Representative 1st in Western Cape Western Cape A Team Captain (winners)
2011	International Mathematics Olympiad (Netherlands) South African Computer Olympiad Baltic Way Mathematics Competition (Germany) UCT Mathematics Competition Inter-Provincial Mathematics Olympiad English Olympiad	Honourable Mention Bronze — Top 10 Western Cape A Team (winners) Silver Award
2010	UCT Mathematics Competition South African Computer Olympiad Inter-Provincial Mathematics Olympiad	Top 10 Bronze Western Cape A Team (winners)
2009	South African Mathematics Olympiad South African Computer Olympiad UCT Mathematics Competition Invitational World Youth Mathematics Intercity Competition (South Africa) Inter-Provincial Mathematics Olympiad	Winner Top 20 Top 10 — Western Cape A Team (winners)
2008	UCT Mathematics Competition Inter-Provincial Mathematics Olympiad	Winner Western Cape A Team (winners)