

Samuel Hinton

B.E. Software engineering (Hon), B.Sc Physics (Hon)

Contact

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Github
Personal

Programming

JavaScript
HTML5 & CSS3
Python
Java
C, C++
Matlab
SQL
LaTeX

Bash
SVN
Git
Maven
Node.js
AngularJS

Education

- 2010–2015 **Bachelor of Engineering** (Software) The University of Queensland
Awarded 1st class honours and graduated top of engineering cohort. Undergraduate engineering thesis entailed writing the web-application Marz to redshift spectra from the AAOmega spectrograph for the OzDES team.
- 2010–2015 **Bachelor of Science** (Physics) The University of Queensland
Awarded 1st class honours and graduated top of science cohort. Thesis project investigated the 2D BAO signal found in the final Wigglez dataset to constrain cosmological parameters.

Industry Experience

- 2010–2014 **GBST** Brisbane, Queensland, Australia
Software Developer
Developed business intelligence reporting solutions for clients, designing and developing server and client based web application code, creation of large scale SQL queries, experience optimising queries, databases and applications for network, processing and memory constraints, developed back-end server code and front-end web applications. Prioritised implementation tasks for strict release schedules, delegated work tasks for other developers and reviewed incoming work for quality.

Awards

- 2015 **Australian Gemini Undergraduate Summer Studentships** AAO
A studentship for a ten week research project at the Gemini South telescope awarded to three students in Australia.
- 2015 **A.W. Oakes Scholarship** St John's College
Awarded to an honours student of outstanding academic success and research potential.
- 2015 **AAO Honours Scholarship** Australian Astronomical Observatory
Awarded to an honours student undertaking a research project co-supervised by an AAO staff-member.
- 2015 **Harriet Marks Bursary** University of Queensland
Awarded to an science honours student for academic merit at the recommendation of the Associate Dean.
- 2014 **University Medal** University of Queensland
Awarded in recognition of outstanding academic success.
- 2014 **David Andrew Krnak Memorial Prize** University of Queensland
Awarded to the top graduating engineering student for outstanding academic performance.

2014	UQ Future Leader	University of Queensland
	The UQ Future Leaders program recognises graduating students who have gone beyond their typical program of studies to make a positive impact on campus, their community and even the world.	
2014	IEEE Student Thesis Prize	IEEE
	Awarded for the best final year thesis in all fields of electric engineering and information technology.	
2010-2014	RWH Hawken Scholar	University of Queensland
	Membership awarded for obtaining the UQ Academic Excellence Scholarship in 2010, and by being in the top 5% of students measured by academic performance.	
2014	IET Student Prize	The Institution of Engineering and Technology
	Awarded to a student of outstanding academic accomplishment at the end of their degree.	
2014	GroundProbe Prize	University of Queensland
	Awarded for best project in microwave, photonics & communications with regards to my thesis on Automatic and Assisted Redshifting of Astronomical Objects.	

Other Awards

2009	OP1	Highest possible secondary education exit score.	QTAC
2010	UQ Academic Excellence Scholarship		UQ
2010	ICT Enabling Scholarship		UQ
2010	John Black Prize	Highest performing first year male.	UQ
2011	Alstom Prize	Top electrical engineering student.	UQ
2011	Walter Bruce Darker Scholarship	Top 3rd year engineering student.	UQ
2012	Exxon Mobil Achievement Award	Top mechanical engineering student.	UQ
2015	10x Deans Commendation		UQ
2015	Helen Thompson Prize for All Round Excellence	Excellence and outstanding contribution to academic and college life.	St John's College

Publications

OzDES multifibre spectroscopy for the Dark Energy Survey: first-year operation and results
Yuan, F. et al.
MNRAS 452 (Sept. 2015) pp. 3047–3063. 2015
Contributed redshifts and designed redshifting software.

Interests

Professional: science communication, astrophysics, cosmology, computational physics, software design, web applications.

Personal: cycling, tennis, debating, gaming, coding, 3D modelling, rendering, photo-manipulation, simulations, CGI, VFX.

Referees

- Cosmology **Prof. Tamara Davis** Physics Department, University of Queensland
Tamara Davis is an Australian Research Council Future Fellow and researches fundamental physics, such as the properties of dark matter and dark energy. Contactable on 0432 526 989.
- Cosmology **Prof. Michael Drinkwater** Physics Department, University of Queensland
Michael Drinkwater obtained his PhD in Cambridge and currently holds position in the University of Queensland's Physics Department as a Professor of Astrophysics. Contactable on 0432 887 642.
- Software **James Cordwell** Business Reporting Specialist, GBST
James Cordwell is the Business Intelligence Reporting product owner within GBST. Contactable on 0401 976 228.