Samuel Hinton

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

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Education

30 Matingara St Chapel Hill, QLD 4069 Australia

2010–2015 **Bachelor of Engineering** (Software)

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.

+61 424 670 574

2010–2015 **Bachelor of Science** (Physics)

University of Queensland

samuelreay@gmail.com Github

Personal

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.

References available on request.

Experience

Programming

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

LaTeX 2015-2016

2015

Gemini & Australian Astronomical Observatory

La Serena. Chile

Research Intern Internship for the

Internship for the Australian Gemini Undergraduate Summer Studentship. Utilised photometric data of Maffei 1 to determine globular cluster candidates and their properties for spectroscopic follow-up. Utilised data reduction pipelines, automated analysis methods in Python, and applied machine learning techniques to perform object classification.

SVN Git Maven Node.js AngularJS

Bash

Recent Awards

Interests
astrophysics
cosmology
computational physics
science communication
software design
web applications
3D modelling
rendering
photomanipulation
CGI & VFX
animations

2016 Bok Prize

Astronomical Society of Australia

Recognising outstanding research in astronomy by an Honours student or eligible Masters student at an Australian university.

2016 **Australian Postgraduate Award**

Australian Government

A PhD scholarship awarded to students of exceptional research potential.

2015 Australian Gemini Undergraduate Summer Studentships

A studentship for a ten week research project at the Gemini South telescope awarded to three students in Australia.

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 Awarded to an science honours student for academic mendation of the Associate Dean.	University of Queensland merit at the recom-
2014	University Medal Awarded in recognition of outstanding academic succ	University of Queenslandess.
2014	David Andrew Krnak Memorial Prize Awarded to the top graduating engineering student demic performance.	University of Queensland for outstanding aca-
2014	UQ Future Leader The UQ Future Leaders program recognises graduating gone beyond their typical program of studies to make campus, their community and even the world.	
2014	IEEE Student Thesis Prize Awarded for the best final year thesis in all fields of ele information technology.	IEEE ctric engineering and
2010-2014	RWH Hawken Scholar Membership awarded for obtaining the UQ Academic ship in 2010, and by being in the top 5% of students me performance.	
2014	IET Student Prize Awarded to a student of outstanding academic accomof their degree.	ngineering and Technology nplishment at the enc
2014	GroundProbe Prize Awarded for best project in microwave, photonics & regards to my thesis on Automatic and Assisted Redsh Objects.	
Other /	\warde	

Other Awards

2015	Australian Institute of Physics Prize	UQ
2015	Rhodes Scholarship Finalist Oxford U	niversity
2015	10x Deans Commendation	UQ
2015	Helen Thompson Prize for All Round Excellence St John's	College
2014	UQ Summer Research Scholarship	UQ
2012	Exxon Mobil Achievement Award Top mechanical engineering student.	UQ
2011	Alstom Prize Top electrical engineering student.	UQ
2011	Walter Bruce Darker Scholarship Top 3rd year engineering student.	UQ
2010	UQ Academic Excellence Scholarship	UQ
2010	ICT Enabling Scholarship	UQ
2010	John Black Prize Highest performing first year male.	UQ
2009	OP1 Highest possible secondary education exit score.	OTAC

Publications

Marz: Manual and automatic redshifting software

Hinton, S.R. et al.

Astronomy and Computing 15 (2016) pp. 61-71. 2016

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