Samuel Hinton

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

	-	
	nta	Ct.
CU	ııla	G.

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

2010-2014 **GBST** Brisbane, Queensland, Australia

JavaScript HTML5 & CSS3 Python Java C. C++ Matlab SQL Software Developer

Research Intern

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.

2015-2016 LaTeX

2015

Gemini & Australian Astronomical Observatory

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.is AngularJS

Bash

Recent Awards

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

Australian Postgraduate Award 2016

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.

2015 A.W. Oakes Scholarship St John's College

> Awarded to an honours student of outstanding academic success and research potential.

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 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 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 Awarded for the best final year thesis in all fields of electric engineering and information technology.
2010-2014	RWH Hawken Scholar 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 Awarded for best project in microwave, photonics & communications with regards to my thesis on Automatic and Assisted Redshifting of Astronomical Objects.

Other Awards

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.	QTAC

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

Contibuted redshifts and designed redshifting software.