# 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.

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

University of Queensland

samuelreay@gmail.com Github

Personal

Awarded 1<sup>st</sup> 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	<b>University Medal</b> Awarded in recognition of outstanding academic success	University of Queensland ess.
2014	<b>David Andrew Krnak Memorial Prize</b> Awarded to the top graduating engineering student fidemic 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	<b>IEEE Student Thesis Prize</b> Awarded for the best final year thesis in all fields of electinformation technology.	IEEE stric engineering and
2010-2014	<b>RWH Hawken Scholar</b> Membership awarded for obtaining the UQ Academic ship in 2010, and by being in the top 5% of students me performance.	
2014	<b>IET Student Prize</b> Awarded to a student of outstanding academic accome of their degree.	gineering and Technology plishment at the end
2014	<b>GroundProbe Prize</b> Awarded for best project in microwave, photonics & cregards to my thesis on Automatic and Assisted Redshi Objects.	

#### **Other Awards**

2015	Australian Institute of Physics Prize	UQ
2015	Rhodes Scholarship Finalist Oxford Un	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	<b>Exxon Mobil Achievement Award</b> 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	<b>OP1</b> 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.