

# Samuel Hinton

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

## Contact

30 Matingara St  
Chapel Hill, QLD 4069  
Australia

+61 424 670 574

samuelreay@gmail.com  
Github  
Personal

References available on  
request.

## Programming

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

Bash  
SVN  
Git  
Maven  
Node.js  
AngularJS

## Interests

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

## Education

- 2010–2015 **Bachelor of Engineering** (Software) University of Queensland  
Awarded 1<sup>st</sup> 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) University of Queensland  
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.

## 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.

## Recent 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	<b>UQ Future Leader</b>	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	<b>IEEE Student Thesis Prize</b>	IEEE
	Awarded for the best final year thesis in all fields of electric engineering and information technology.	
2010-2014	<b>RWH Hawken Scholar</b>	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	<b>IET Student Prize</b>	The Institution of Engineering and Technology
	Awarded to a student of outstanding academic accomplishment at the end of their degree.	
2014	<b>GroundProbe Prize</b>	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

2015	<b>10x Deans Commendation</b>	UQ
2014	<b>UQ Summer Research Scholarship</b>	UQ
2015	<b>Helen Thompson Prize for All Round Excellence</b>	St John's College
2012	<b>Exxon Mobil Achievement Award</b>	Top mechanical engineering student. UQ
2011	<b>Alstom Prize</b>	Top electrical engineering student. UQ
2011	<b>Walter Bruce Darker Scholarship</b>	Top 3rd year engineering student. UQ
2010	<b>UQ Academic Excellence Scholarship</b>	UQ
2010	<b>ICT Enabling Scholarship</b>	UQ
2010	<b>John Black Prize</b>	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  
Contributed redshifts and designed redshifting software.