

Laura Prichard

Space Telescope Science Institute,
3700 San Martin Drive,
Baltimore, MD 21218, USA
Office: The Rotunda, RW335

Email: lprichard@stsci.edu
Website: www.lauraprichard.co.uk
Skype: [laura.prichard2](https://www.skype.com/people/laura.prichard2)
Phone: +1 (410) 972-8881

Profile

I am interested in the evolution of galaxies across cosmic time. I use photometric, spectroscopic and integral field data to study galaxies spanning different environments, morphologies, redshifts, and wavelengths.

Employment

- **Space Telescope Science Institute (STScI), Baltimore, MD, USA**, Postdoctoral Researcher, September 2018 – present. Supervisor: Doctor Marc Rafelski.

Education

- **University of Oxford, UK**, Doctor of Philosophy (DPhil) in Astrophysics, October 2014 – June 2018. Supervisor: Professor Roger Davies. Thesis: *‘The Evolution of Early-Type Galaxies’*.
- **University of Leeds, UK**, Master of Physics (MPhys) with Astronomy (North America), first class honors, 2013 – 2014. Supervisors: Professor Paola Caselli & Professor Raja Guhathakurta (UCSC). Thesis: *‘Classification and analysis of emission-line stars in Andromeda’*.
- **University of Leeds, UK**, Bachelor of Science (BSc), first class honors, 2010 – 2013.
- **University of California, Santa Cruz (UCSC), CA, USA**, Exchange year for BSc/MPhys, 2012 – 2013.

Scholarships & Awards

- **Doctoral Researcher Honourable Mention Award**, Association of British Turkish Academics, 2018.
- **Hintze Scholarship**, University of Oxford, 2014 – 2018.
- **Bolton Prize in Astrophysics**, University of Leeds, 2014.

Grants & Proposals

- **Hubble Space Telescope**, Successful proposal as co-Investigator (program ID: 15637), WFC3/G141 grism survey, 90 orbits, Cycle 26, decision November 2018.
- **Royal Astronomical Society**, Support to attend the winter American Astronomical Society (AAS), January 2018 – £563. Support for a research visit to UCSC and to attend the IAU XXIX General Assembly (GA), July/August 2015 – £680.
- **European Southern Observatory (ESO)**, Successful telescope proposal as co-Principal Investigator to use KMOS for Period 100 (run ID: 0100.A-0296(A)), 3 nights, July 2017.
- **Christ Church, Oxford**, Support to attend conference, April 2016 – £100. Support for UCSC research visit and to attend the IAU XXIX GA, July/August 2015 – £600.
- **International Astronomical Union (IAU)**, Support to attend the IAU XXIX GA, August 2015 – \$780.

Observing Experience

- **Keck Observatory, HI, USA**, Visitor mode, LRIS, upcoming: December 2018 and January 2019. DEIMOS, April 2013.
- **European Southern Observatory, Chile**, Visitor mode, KMOS, VLT, run ID: 099.A-0207(A), April 2017; run IDs: 098.A-0224(A) & 098.A-0204(A)(B), October 2016; run ID: 095.B-0035(C), August 2015.

Scientific Presentations

- **STScI, Baltimore, MD, USA**, Journal Club Talk, January 2018.
- **Yale University, New Haven, CT, USA**, Journal Club Talk, January 2018.
- **Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, USA**, Galaxies Seminar, January 2018.
- **Dunlap Institute, Toronto, Canada**, Dunlap Tea Talk, January 2018.
- **AAS 231st Meeting, Washington, DC, USA**, Thesis Talk, January 2018.
- **University of Oxford, UK**, Galaxies Seminar, November 2017.
- **Durham University, UK**, Galaxies Seminar, October 2017.
- **University of Nottingham, UK**, Seminar, October 2017.
- **National Astronomy Meeting, Hull, UK**, Conference Talk, July 2017.
- **University of Oxford, UK**, Stellar Seminar, May 2017.
- **ESO Vitacura, Chile**, Seminar, October 2016.
- **Institute of Astronomy, Cambridge, UK**, Seminar, July 2016.
- **National Astronomy Meeting, Nottingham, UK**, Conference Talk, June 2016.
- **The Interplay Between Local and Global Processes in Galaxies, Mexico**, Poster, April 2016.
- **IAU XXIX GA, Honolulu, HI, USA**, Poster, August 2015.
- **Birmingham-Nottingham Extragalactic Workshop, Birmingham, UK**, Poster, February 2015.
- **Meeting of dwarf galaxies and globular clusters research groups, UCSC, USA**, Lunchtime Talk, June 2013.

Leadership & Committee Roles

- **Invision Working Group, STScI**, Committee to establish and uphold a civil and inclusive environment for a diverse staff at STScI. November 2018 – present.
- **Friday Science Coffee Organizer, STScI**, October 2018 – present.
- **CoolSci Talk Series Committee, STScI**, October 2018 – present.
- **President of the Christ Church Graduate Common Room (GCR)**, Representing Christ Church graduates college and university wide. Managing a committee of 30 people. Implementing policies, reforming the GCR constitution, and campaigning for the inclusion of under-represented students. March 2015 – March 2016.
- **Events Coordinator for the Oxford Women in Physics Society**, Planning large networking and educational events to raise awareness of and address the gender imbalance in physics. January 2015 – October 2015.
- **Local Organizing Committees**, Spectroscopy with HARMONI, Oxford, June 2015. Wetton Workshop, Oxford, April 2015.

Teaching & Supervision

- **UCSC**, Mentor, Summer Internship Program. Co-supervising three high-school students on a research project, June – September 2016.
- **University of Oxford**, Tutor, MPhys C1 Astrophysics Course. Running regular tutorials for six master's students. October 2015 – June 2016.

Outreach & Press

- **Stargazing, Oxford**, Volunteer at the annual event, 2015 – 2017.
- **After Dinner Talk, Christ Church, Oxford**, February 2017.
- **Independent on Sunday**, Interviewed for '*Numbers studying physics rise as blockbuster films, the Hadron Collider and the Mars Rover inspire students*', March 2015.
- **Telescope Evenings, Oxford**, Leading astrophysics outreach activities for local schools, 2014 – 2015.

References

Professor Roger Davies*DPhil supervisor*

Sub-Department of Astrophysics,
University of Oxford,
OX1 3RH, UK
roger.davies@physics.ox.ac.uk

Professor Raja Guhathakurta*MPhys co-supervisor*

Department of Astronomy and Astrophysics,
UCSC, Santa Cruz,
CA 95064, USA
raja@ucolick.org

Professor Roberto Maiolino*DPhil examiner*

Department of Physics,
University of Cambridge,
CB3 0HE, UK
r.maiolino@mrao.cam.ac.uk

Professor Ralf Bender*Collaborator*

Observatory of the Ludwig-
Maximilians-Universität,
80539 München, Germany
bender@mpe.mpg.de

Publications

Three first-author papers and DPhil thesis since Spring 2017.

First-author publications:

1. **Laura J. Prichard**, Roger L. Davies, and Sam P. Vaughan. *‘Unravelling the Origin of the Counter-Rotating Core in IC 1459 with KMOS and MUSE’*, 2018, MNRAS, in review.
2. **Laura J. Prichard**, *‘The Evolution of Early-Type Galaxies’*, June 2018, DPhil thesis, University of Oxford.
3. **Laura J. Prichard**, Roger L. Davies, Alessandra Beifiori, Jeffrey C. C. Chan, Michele Cappellari, Ryan C. W. Houghton, J. Trevor Mendel, Ralf Bender, Audrey Galametz, Roberto P. Saglia, John P. Stott, David J. Wilman, Ian J. Lewis, Ray Sharples, and Michael Wegner. *‘The KMOS Cluster Survey (KCS) III: fundamental plane of cluster galaxies at $z \simeq 1.80$ in JKCS 041’*, December 2017, ApJ, 850, 203.
4. **Laura J. Prichard**, Puragra (Raja) Guhathakurta, Katherine M. Hamren, Julianne J. Dalcanton, Claire E. Dorman, Anil C. Seth, Benjamin F. Williams, Gabriel A. Damon, Anita Ilango, and Megha Ilango. *‘Emission-line stars in M31 from the SPLASH and PHAT surveys’*, March 2017, MNRAS, 465, 4180–4203.

Other publications:

1. Jeffrey C. C. Chan, Alessandra Beifiori, Roberto P. Saglia, J. Trevor Mendel, John P. Stott, Ralf Bender, Audrey Galametz, David J. Wilman, Michele Cappellari, Roger L. Davies, Ryan C. W. Houghton, **Laura J. Prichard**, Ian J. Lewis, Ray Sharples, and Michael Wegner. *‘The KMOS Cluster Survey (KCS) II - The Effect of Environment on the Structural Properties of Massive Cluster Galaxies at Redshift $1.39 < z < 1.61$ ’*, March 2018, ApJ, 856, 8C.
2. Alessandra Beifiori, J. Trevor Mendel, Jeffrey C. C. Chan, Roberto P. Saglia, Ralf Bender, Michele Cappellari, Roger L. Davies, Audrey Galametz, Ryan C. W. Houghton, **Laura J. Prichard**, Russell J. Smith, John P. Stott, David J. Wilman, Ian J. Lewis, Ray Sharples, and Michael Wegner. *‘The KMOS Cluster Survey (KCS) I: The fundamental plane and the formation ages of cluster galaxies at redshift $1.4 < z < 1.6$ ’*, September 2017, ApJ, 846, 120.
3. Jeffrey C. C. Chan, Alessandra Beifiori, J. Trevor Mendel, Roberto P. Saglia, Ralf Bender, Matteo Fossati, Audrey Galametz, Michael Wegner, David J. Wilman, Michele Cappellari, Roger L. Davies, Ryan C. W. Houghton, **Laura J. Prichard**, Ian J. Lewis, Ray Sharples and John P. Stott. *‘Sizes, colour gradients and resolved stellar mass distributions for the massive cluster galaxies in XMMUJ2235-2557 at $z = 1.39$ ’*, May 2017, MNRAS, 458, 3181–3209.