

Curriculum Vitae

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Education

ARIZONA STATE UNIVERSITY

PhD in Astronomy

May 2012 - 2017

“Exoplanet Meteorology: Characterizing the atmospheres of directly imaged sub-stellar objects”

Thesis Co-advisors: Dr. Jenny Patience, Dr. Patrick Young

SAN DIEGO STATE UNIVERSITY

M.S. in Astronomy

May 2008

“Accurate System Parameters for the Long Period Transiting Exoplanet HD17516b”

Thesis Advisor: Dr. William F. Welsh

UNIVERSITY OF PUNE, INDIA

B.E. in Instrumentation & Controls

May 2004

Thesis Projects

DETERMINING THE ATMOSPHERIC PROPERTIES
OF DIRECTLY IMAGED PLANETS

2011 - 2015

- Supervisor: Dr. T. Barman, Dr. R. Soummer
Cycle 19 HST/WFC3 program to characterize HR8799bcd in the near IR
- Supervisor: Dr. B. Macintosh, Dr. J. Patience
Examining the properties of the young Jupiter 51 Eri b
The GPIES campaign and searching for a circumplanetary disk around HD 106906 b

SEARCHING & CHARACTERIZING L-T-Y BROWN DWARFS

May 2012 - 2015

- Supervisor: Dr. J. Patience
Searching for variability across the T/Y boundary
Multi-wavelength characterization of known L & T brown dwarfs

Work Experience

SPACE TELESCOPE SCIENCE INSTITUTE

2017 - Present

Postdoctoral Fellow

ARIZONA STATE UNIVERSITY

2012 - 2017

Research Associate

SPACE TELESCOPE SCIENCE INSTITUTE

2008 - 2012

Research and Instrument Analyst II

SAN DIEGO STATE UNIVERSITY	2005 - 2008
Lecturer: Introductory Astronomy	Summer 2008
Lead Teaching Associate: Astronomy Laboratory	2007-2008
Teaching Associate: Astronomy Laboratory	2006-2007
Research Associate: Mt. Laguna Observatory	2005-2006

Grants & Awards

FUNDED CO-PI ON NASA KECK PROPOSAL	
◦ Characterizing the Atmosphere of the Lowest-mass Directly Imaged Planet	2015
FUNDED CO-INVESTIGATOR ON HUBBLE SPACE TELESCOPE GUEST OBSERVER PROPOSAL	
◦ Brown dwarf Atmosphere Monitoring (BAM!): Characterizing the Coolest Atmosphere	2014
FUNDED CO-INVESTIGATOR ON HUBBLE SPACE TELESCOPE GUEST OBSERVER PROPOSAL	
◦ Massive Stars and their Siblings: the Extreme End of the Companion Mass Function	2013
FUNDED CO-INVESTIGATOR ON HUBBLE SPACE TELESCOPE GUEST OBSERVER PROPOSAL – \$57,609	
◦ Determining the Atmospheric Properties of Directly Imaged Planets	2011
AMERICAN ASTRONOMICAL SOCIETY: ASTRONOMY OUTREACH AMBASSADOR	2013

Service

GPSA TRAVEL GRANT REVIEWER	
◦ ASU Graduate Student travel grant reviewer	2012 – 2016
SCIENCE PANEL	
◦ HST Time Allocation Committee support staff	2010

Public Outreach

YOUTH FOR ASTRONOMY AND ENGINEERING	2010
◦ Volunteering with the group during classroom sessions	
PROJECT ASTRO SAN DIEGO	2007-2008
◦ Taught astronomy labs to middle school classes in the San Diego area	
INNER SPACE/ OUTER SPACE	2005-2008
◦ Planetarium and rooftop telescope shows at SDSU	

Programming

Proficient: *Python*
 Familiar: *IDL, PyRAF, Mathematica, Fortran, SQL*

References**Travis Barman**

Associate Professor
University of Arizona
Lunar and Planetary Laboratory
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barman@lpl.arizona.edu

Laurent Pueyo

Associate Astronomer
Space Telescope Science Institute
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Bruce Macintosh

Professor of Physics
Stanford University
Phone: (650) 725-4116
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Patrick Young

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School of Earth & Space Exploration
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