

KIMBERLY M. BOTT

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EDUCATION

Ph.D. Astrophysics (School of Physics; Dept. of Astrophysics & Optics) Start Date: March 2012
University of New South Wales, Sydney, Australia Submitted: Sept 2015
Thesis: POLARIMETRY OF HOT-JUPITER SYSTEMS AND RADIATIVE Accepted: Nov 2015
TRANSFER MODELS OF PLANETARY ATMOSPHERES Conferred: June 2016
Primary advisor: Jeremy Bailey; Co-advisor: Chris Tinney

Bachelor of Arts, Physics & Bachelor of Science, Astronomy (Dual Degree) Dec 2008
University of Hawai'i, Hilo, HI

HONORS & AWARDS

PI'd grants and scholarships totalling ~900,000 USD; contributor to additional grants ~12 million USD; total direct awards ~2 million; 3 invited review/plenary talks, 1 invited book chapter

Grants & telescope time

NASA ROSES HabWorlds 980,852 (sub 399,016) USD; 2023
PI: Th. Karalidi (moderate contributor)
"Title: Roadmap for time resolved polarimetric...habitable exoplanets with spectropolarimetry"

HST-GO/AR grant 196,897 (sub 16,612) USD; 2022
PI: B. Sparks; Inst.-PI: K. Bott (moderate contributor)
"Probing the Icy Regoliths of Europa with Imaging Polarimetry"

NASA ROSES HabWorlds 771,945 (sub 443,116) USD; 2020
PI: Th. Karalidi; Sci-PI: K. Bott (primary contributor)
"Polarization Signatures of Habitable Exoplanets"

NASA NAI CAN 10,974,065 USD; 2018
PI: V. Meadows; (minor contributor)
"The Virtual Planetary Laboratory: Advancing the Search for Life Beyond the Solar System"

11 Successful Observing Proposals on Anglo-Australian Telescope Total: 62 nights; 2016-2021
PIs: J. Marshall, D. Cotton, J. Bailey (minor to moderate contributor)

2 Successful Observing Proposals on UCO Lick Shane Telescope Total: 14 nights; 2021-2022
PI: K. Bott (primary contributor)

1 Successful Observing Proposal on HST Total: 8 Orbits; 2022
PI: W. Sparks (minor contributor)

Scholarships

School of Physics Scholarship, UNSW 2014
Postgraduate Scholarship, Australian Centre for Astrobiology 2013, 2014
Postgraduate Research Scholarship Scheme, Postgraduate Research School, UNSW 2013
Dean's Scholarship, Northern Arizona University 2006
Excellence in Engineering Scholarship, Northern Arizona University 2006

Other

Competitive Entry to Akamai Internships, ELSI Winter School, PI Launchpad,
JPL/NASA Planetary Science Mission Development School (PSSS) 2008, 2017, 2023

RESEARCH EXPERIENCE

University of California, Riverside, & at SETI as of 10/2023 Assistant Researcher, 10/2020–
Sci-PI Terrestrial Polarimetry (ROSES HabWorlds)

Project: Development and validation of polarized radiative transfer code with Earth, Venus, icy moon data, and forward models and observability of habitable exoplanet characteristics

University of California, Riverside Postdoctoral Scholar, 5–10/2020
Advisor: Stephen Kane

Projects: Uranus/Neptune seasonality; TESS+Spitzer light curve analysis; Earth observing polarimeter

University of Washington & Virtual Planetary Laboratory Postdoctoral Scholar, 10/2016–4/2020

Advisor: Vikki Meadows

Project: radiative transfer code dev. + validation; reflectance and polarization of habitable worlds

University of New South Wales Research Assistant (contemporaneous with PhD), 2/2012–12/2015

Advisor: Jeremy Bailey

Projects: Polarization and atmospheric retrieval of hot Jupiters, high precision polarimeter, Uranus deuterium measurement from high resolution spectra

Institute for Astronomy & Air Force Maui Optics Site PostBac Independent Contractor, 5–9/2009

Advisor: Joseph Janni

Projects: Hokupa'a 85 element curvature AO system optical calibrations, LCROSS support

University of Hawai'i PostBac Research Assistant, 1–4/2009

Advisor: Marianne Takamiya

Project: Observations of H α emission corrections to dust extinction in star forming regions in nearby galaxies

Institute for Astronomy Summer Akamai Intern, 5–8/2008

Advisor: Klaus Hodapp

Project: Infrared Imaging System (IRIS) cryogenics system design, build, and test

Gemini North Summer Research Assistant, 5–8/2007

Advisor: Thomas Dall

Project: Analysis and data reduction of spectra of active stars

TEACHING & MENTORSHIP

Mentored Students

Michelle Hill, as PhD research co-advisor (*Planet size limits to habitability*) UCR 2021-

Myrla Philippe, (PhD Student) as project PI (*Venus condensate mapping*) UCF 2021-

Kenny Gordon, (PhD Student) as project PI (*Earthshine polarization and Earth-through-time*) UCF 2020-

Alma Ceja, as MSc research co-advisor (*AstroEcology models, Habitability statistics*) UCR 2020-2023

Currently: Software Engineer at Dell Technologies

Lyan (Ilyana) Guez, as Undergrad. research advisor (*Polarimetry of clouds on super Earths*) UW 2018-19

Student awarded Baer Prize for research project

Currently: PhD Candidate at University of St. Andrews

Course Development

(Grad) Primers on Astronomy and Programming for incoming Astrobiology students UW 2019

(Lower Division) Online course development (MOOC), *Intro. Astronomy & Search for Life* UNSW 2013

(K-12) Outreach Developer, workshops on air pressure, aliens, and light UNSW 2012-16

(Lower Division) *Introduction to Electromagnetism* UHH 2008

Lectures & Teaching

(Lower Division) guest lecturer, *Electromagnetism: The Photoelectric Effect* Occidental 2023

(Grad) guest lecturer, *Exoplanet Science: Planetary Migration* NAU 2023

(Grad) guest lecturer, <i>Ethics in Astrobiology: Colonialism</i>	UCR 2022
(Lower Division) guest lecturer, <i>Planets in Science Fiction: History of Sci-Fi Media</i>	UCR 2022
(Grad) guest lecturer, <i>Planetary Habitability: Exoplanets in Reflected Light</i>	UCR 2021
(Lower Division) guest lecturer, <i>Planets Near and Far: Planet Characterization</i>	UCR 2020
(Grad) guest lecturer, <i>Professional Development: Job Search and Career Paths</i>	UW 2020
(Grad) co-lecturer, <i>Astrobiology Primers: Computational Research & Exoplanets short courses</i>	UW 2019
(Grad) guest lecturer, <i>Graduate Astrobiology Discipline (Exoplanets)</i>	UW 2018
(Lower division) principal instructor, Astrobiology colloquium	UW 2018
(Lower division) teaching assistant, <i>Intro. Astronomy & Search for Life</i>	UNSW 2013-14
(Lower Division) lab assistant, <i>Introduction to Physics Lab</i>	UNSW 2013
(Lower Division) co-primary lecturer, <i>Introduction to Electromagnetism</i>	UHH 2008
Department (Physics and Astronomy) tutor	UHH 2007-08

Professional development

NASA SMD & Heising-Simons Foundation PI Launchpad	U Michigan 2023
NASA/JPL Planetary Science Mission Development School (PSSS)	JPL 2023
SafeZone (LGBTQ+) training	UW 2019
Negotiations workshop	UW 2019
Critical Mentoring (Critical Race Theory) workshop	UW 2018
Inclusion in Astronomy workshops	Australia 2013-15
Numerous writing, coding, and astrobiology workshops	var. 2012-
Public Relations minor & elective focus on world cultures and politics	UHH 2008

SERVICE

Session Chair “Habitability and Astrobiology Near and Far”	EioB2 2022
NExSS Steering Committee (Terrestrial Polarization PI rep.)	2021-
Member Scientific Organising Committee	ExSoCal 2020
Member Scientific Organising Committee “Exoplanet Detection & Characterization...”	COSPAR 2020/1
Session chair “Astrobiology”	AAS 2019
Astrobiology postdoc representative (organized writing course, collaboration events)	UW 2018-19
Session chair “Connecting Modeling and Observations...Search for Habitable Planets”	AbSciCon 2017
Member Local Organizing Committee	ASA 2013
Chair of Board of Student Publications	U Hawai‘i 2006-07
Review Panels (e.g. TACs, ROSES, NSF, etc.)	2019–
Reviewer for A&A, ApJ, MNRAS	2016–

PROFESSIONAL TALKS

Keynotes, Plenaries, and Invited Reviews

Plenary: Exoplanet and Astrobiological Polarimetry SPIE Optics + Photonics; Polarization and Remote Sensing	Aug 2023
Review: How to Look for Life Lorentz Centre Workshop on Instrument Concepts for High Contrast Imaging	Feb 2023
Review: Terrestrial Exoplanet Polarization Overview Lorentz Centre Workshop on Imaging an Exoplanet in Polarized Light	June 2018

Invited Talks

Reflectance of Exoplanets

UC Riverside Earth & Planetary Science May 2023

Identifying sources of reflected light in unresolved exoplanet systems

U Rochester Physics & Astronomy Feb 2023

Northern Arizona University Astronomy Mar 2023

Occidental College Physics Mar 2023

Purdue University Earth and Planetary Science/Origins of Life April 2023

Updating planetary reflectance models...for exoplanet characterization

U Florida Astronomy Oct 2022

Improving Biosignature Confidence with Polarimetry

UCR Astrobiology Jan 2022

Expected polarimetric signals from exoplanets

CalTech IPAC May 2021

Invisible Giants: hot Jupiter polarization dependency on condensates

Washington State University Oct 2020

NASA Goddard Nov 2020

Is it clouds? How to improve certainty...observations using polarimetry

UC Riverside Astrobiology Oct 2019

Polarimetry for Exoplanets

Center for Computational Astrophysics (Simons/Flatiron) Dec 2018

NYU Astronomy Seminar Dec 2018

MIT Exoplanet Tea Talk Nov 2018

Harvard Exoplanets Lunch Talk Nov 2018

Biosignatures in Polarized Light

NASA Ames Exobiology Colloquium Nov 2018

Comparisons of polarized light signatures from terrestrial planets

Observatoire de Paris Seminar June 2018

Uni. Grenoble Alpes IPAG Earth Polarimetry Group Meeting June 2018

Uni. Bern Astronomy Seminar June 2018

Delft Uni. of Technology Astronomy Colloquium June 2018

Leiden Observatory Seminar June 2018

Habitability from Polarimetry

ABC (U Tokyo) Origin of Life Meeting Jan 2018

Habitability from Polarimetry

Universidad de Chile Astronomy Seminar Dec 2016

Promise of Polarimetry for Habitability Measurements and Biosignatures

Berkeley CIPS Seminar April 2017

NASA JPL SVCP (PS) Seminar April 2017

UW Astronomy Colloquium May 2017

UW Astrobiology Colloquium May 2017

Contributed Talks

Quarantine Storybook

ExSoCal Sept 2020

Utility of Polarimetry in Studies of Exoplanet Atmospheres and Habitability

Exoclimes Oxford Aug 2019

The Practicality of Polarimetry for Judging Planetary Habitability

AbSciCon Seattle Jun 2019

Comparisons of polarized light signatures from terrestrial planets AAS Seattle	Jan 2019
Promise of Polarimetry for Habitability Measurements and Biosignatures AbSciCon	April 2017
Exoplanet Polarimetry AAS Winter Meeting	Jan 2016
New Measurements of Polarized Light from Exoplanets Astronomical Society of Australia ASM	July 2015
Measurements of Polarized Light from Exoplanets with HIPPI 4th Australian Exoplanet Workshop	Dec 2014
Deuterium on Uranus Australian Space Research Conference	Sept 2014
Polarized Light from Exoplanet Atmospheres Astronomical Society of Australia ASM	July 2014
Emission and Transmission Spectroscopy of HD 189733b 3rd Australian Exoplanet Workshop	Dec 2013
A VSTAR Model of the Atmosphere of the Hot Jupiter HD 189733b Australian Space Science Conference	Oct 2013
VSTAR Models of HD 189733b Astronomical Society of Australia ASM	July 2013
VSTAR Models of a Hot Jupiter Australian Astrobiology Conference	July 2013
VSTAR Models of the Near-IR Spectrum of Uranus Australian Space Science Conference	Sept 2012
PUBLIC TALKS/PODCASTS/PANELS/INTERVIEWS	
“Wild Worlds Near and Far” children’s planets workshop Seattle (Blakeley Community Center) and Whidbey Island (Sno-Isle Libraries), WA, USA	2022
Biosignature Detection Panel UW, Seattle (virtual), WA, USA	2021
Twitch EduStream Astrobiology in Videogames Twitch.tv (virtual), @endlesslope	2021
Astrobiology with Asher and Adam, Ep. 3 Youtube.com (virtual), Ch: Asher Arrow Productions	2021
“UW researcher seeks to be first to detect polarized light from ‘hot Jupiter’ planets” UW Daily, Sarah Kahle, shorturl.at/oFJX3	2021
Exoplanets Table Mountain Star Party, Okanogan Valley, WA, USA	2020
Science in Sci-Fi Panel GeekGirlCon, Seattle, WA, USA	2019
Exoplanets and Astrobiology Table Mountain Star Party, Okanogan Valley, WA, USA	2019
Science of “Mass Effect” Strange New Worlds Podcast, Seattle, WA, USA	2019
Astrobiology in Videogames Astronomy on Tap, Seattle, WA, USA	2019

Astrobiology Everett Astronomical Society, Everett, WA, USA	2019
Living in Space and on Other Worlds Seattle Hill Elementary, Everett, WA, USA	2018
Boozy Astrobiology: Is there Life on Bars? Ada's Bookstore "NightLab", Seattle, WA, USA	2018
Updates on Polarized Aliens Astronomy on Tap Anniversary, Seattle, WA, USA	2018
Habitability Polarimetry Olympic Astronomical Society Banquet, Seattle, WA, USA	2018
Planetary Polarimetry & What the h*ck is polarimetry?! Astronomy on Tap, Seattle, WA, USA	2017
Exoplanet Habitability Olympic Astronomical Society, Bremerton, WA, USA	2017
Exobiology and Exoplanets Coupeville Middle School (Terry Welch 8th grade science courses), Coupeville, WA, USA	2016
Exoplanet Polarimetry Island County Astronomical Society, Oak Harbor, WA, USA	2016
Finding Solaris (remote sensing and exoplanet weather) Astronomical Society of NSW, Marsfield, Australia	2014
"Australian Universities Research Highlights" Cosmos Magazine	2013
Planetary Transits Transit of Venus Festival, UNSW Sydney, Australia	2012

REFERENCES

Prof. Stephen Kane, postdoc advisor, UCR Planetary Research Lab PI
skane@ucr.edu; +1 (626) 421 9054

Prof. Vikki Meadows, postdoc advisor, Virtual Planetary Laboratory PI
meadows@uw.edu; +1 (206) 543 0206

Prof. Jeremy Bailey, PhD thesis advisor, HiPPI polarimeter PI
j.bailey@unsw.edu.au; +61 (2) 9385 5588

Prof. Theodora Karalidi, HabWorlds PI
tkaralidi@ucf.edu; +1 (407) 823 2766

Dr. Mary (Niki) Parenteau, collaborator
mary.n.parenteau@nasa.gov; +1 (650) 604 0784

Dr. William Sparks, collaborator
wsparks@seti.org; +1 (443) 244 3332

Prof. Margaret Turnbull, collaborator
turnbull.maggie@gmail.com

Dr. David Crisp, collaborator
dcrispjpl@gmail.com; +1 (818) 354 2224

PUBLICATIONS

Peer-Reviewed Scientific Journal Papers

Synopsis

31 accepted peer-reviewed articles; 3 in submission; one chapter under contract; h-index 14; 516 citations; 6 first author or led by formally advised student; 4 second author, 7 third author; papers on mapping Venus as unresolved exoplanet (self), possible first detection of an exoplanet in polarized light (self), and polarization signatures of Earth through time (student) forthcoming

*Advisee papers marked with asterisk **

Submitted

1. MODELING SPITZER 3.6 AND 4.5 M ECLIPSE DEPTHS FOR THE INFLATED HOT JUPITER IN THE EVOLVED BINARY SYSTEM HD 202772
Adams, Arthur; **Bott, Kimberly**; Dalba, Paul; Featherolf, Tara; Kane, Stephen; Crossfield, Ian; Deming, Drake; Grojjan, Varoujan; Kreidberg, Laura; Morales, Farisa; Werner, Michael; submitted to AAS journals
2. LINE-BY-LINE NIR MODELS OF URANUS AND NEPTUNE SPECTRA OBSERVED AT AAT/IRIS2 AND GEMINI/GNIRS; APPLICATION OF DIFFERENT METHANE SPECTRAL LINES
Karamiqucham, Behrooz; Cotton, Daniel; Bailey, Jeremy; Kedziora-Chudczer; **Bott, Kimberly**; submitted to MNRAS.
3. TOWARDS AN IMPROVED METHANE D/H RATIO FOR NEPTUNE
Cotton, Daniel; **Bott, Kimberly**; Kedziora-Chudczer, Lucyna; Bailey, Jeremy; Karamiqucham, Behrooz; Submitted to Icarus

Accepted

4. CHASING RAINBOWS WITH THE HABITABLE WORLDS OBSERVATORY (2023)
Vaughan, S.; Gebhard, T.; **Bott, K.**; Caswell, S.; Cowan, N.; Doelman, D.; Kenworthy, M.; Mazoyer, J.; Millar-Blanchaer, M.; Trees, V.; Stam, D.; et al., MNRAS, 524.4 (2023): 5477-5485
5. MULTI-WAVELENGTH APERTURE POLARIMETRY OF DEBRIS DISC HOST STARS (2023)
Marshall, Jonathan; Cotton, Daniel; **Bott, Kimberly**; Bailey, Jeremy; Kedziora-Chudczer, Lucyna; Brown, Emma; MNRAS, 522, 2.
6. THE DEMOGRAPHICS OF TERRESTRIAL PLANETS IN THE VENUS ZONE (2023)
Ostberg, Colby; Kane, Stephen; **Bott, Kimberly**; Dalba, Paul; Featherolf, Tara; Head, James; Hill, Michelle; Li Zhexing; AJ, 165, 4, 168.
7. POLARIZED SIGNATURES OF A HABITABLE WORLD: COMPARING MODELS OF AN EXOPLANET EARTH WITH VISIBLE AND NEAR-INFRARED EARTHSHINE SPECTRA (2023)
* **Gordon, Kenneth**; Karalidi, Theodora; **Bott, Kimberly**; Miles-Paez, Paulo; Mulder, Willeke; Stam, Daphne; ApJ, 945, 2, 166.
8. A DECADE OF LINEAR AND CIRCULAR POLARIMETRY WITH THE POLISH2 POLARIMETER (2022)
Wiktorowicz, Sloane; Slowikowska, Agnieszka; Nofi, Larissa; Nicole, Wolfgang, Angie; Hermis, Ninos; Jontof-Hutter, Daniel; Bayless, Amanda; Cole, Gary; Graham, James; Millar-Blanchaer, Maxwell; **Bott, Kimberly**; Mauerhan, Jon; ApJ, 264, 2, .
9. A CATALOG OF HABITABLE ZONE EXOPLANETS (2022)
* **Hill, Michelle**; **Bott, Kimberly**; Featherolf, Tara; Kane, Stephen; Ostberg, Colby; Dalba, Paul; AJ, 165, 2, 34.
10. POLARIMETRIC DETECTION OF NONRADIAL OSCILLATION MODES IN THE BETA CEP STAR BETA CRUSIS (2022)
Cotton, Daniel; Buzasi, Derek; Aerts, Conny; Bailey, Jeremy; Burssens, Siemen; Pedersen, May; Stello, Dennis; Kedziora-Chudczer, Lucyna; De Horta, Ain; De Cat, Peter; Lewis, Fiona; Prathyusha Malla, Sai; Wright, Duncan; **Bott, Kimberly**; Nature Astronomy, 6, 1, 154-164
11. POLARIZATION OF HOT JUPITER SYSTEMS: A LIKELY DETECTION OF STELLAR POLARIZATION AND POSSIBLE DETECTION OF PLANETARY POLARIZATION (2021)

- Bailey, Jeremy; **Bott, Kimberly**; Cotton, Daniel; Kedziora-Chudczer, Lucyna; Zhao, Jinglin; Evensberget, Dag; Marshall, Jonathan; Wright, Duncan; Lucas, Phillip; MNRAS, V. 502, Is. 2, pp. 2331–2345
12. POLARIMETRIC AND RADIATIVE TRANSFER MODELLING OF HD 172555’S DEBRIS DISC (2021)
Marshall, J.; Cotton, D.V.; Scicluna, P.; Bailey, J.; Kedziora-Chudczer, L.; **Bott, K.**; MNRAS, 499, 4, pp. 5915-5931
 13. SPECTROPOLARIMETRY OF PRIMITIVE PHOTOTROPHS AS GLOBAL SURFACE BIOSIGNATURES (2021)
Sparks, W.B., Parenteau, M.N., Blankenship, R.E., Germer, Th.A., Patty, C.H.L., **Bott, K.M.**, Telesco, Ch.M., Meadows, V.S.; Astrobiology, 21, 2, pp. 219-234
 14. THE WAVELENGTH DEPENDENCE OF INTERSTELLAR POLARIZATION IN THE LOCAL HOT BUBBLE (2019)
Cotton, Daniel; Marshall, Jonathan P.; Frisch, Priscilla, C.; Bailey, Jeremy; Kedziora-Chudczer, Lucyna; **Bott, Kimberly**; Wright, Duncan J.; Wyatt, Mark C.; MNRAS, Volume 483, Issue 2, pp. 3636–3646
 15. THE ROTATIONALLY MODULATED POLARIZATION OF KSI BOO A (2019)
Cotton, Daniel V.; Evensberget, Dag; Marsden, Stephen C.; Bailey, Jeremy; Kedziora-Chudczer, Lucyna; Carter, Bradley D.; **Bott, Kimberly**; Zhao, Jinglin; the BCOOL Collaboration; MNRAS, Volume 483, Issue 2, pp. 1574–1581
 16. THE POLARIZATION OF THE PLANET-HOSTING WASP-18 SYSTEM (2018)
Bott, Kimberly; Bailey, Jeremy; Cotton, Daniel; Kedziora-Chudczer, Lucyna; Marshall, Jonathan; Meadows, Victoria; AJ, Volume 158, Issue 6, Article Id 293
 17. OBSERVING OCEANS IN TIGHTLY PACKED PLANETARY SYSTEMS: PERSPECTIVES FROM POLARIZATION MODELING OF THE TRAPPIST-1 SYSTEM (2018)
Kopparla, Pushkar; Natraj, Vijay; Crisp, David; **Bott, Kimberly**; Swain, Mark R.; Yung, Yuk L.; AJ, Volume 156, Issue 4, Article Id 143
 18. POLARIZED RADIATIVE TRANSFER IN PLANETARY ATMOSPHERES AND THE POLARIZATION OF EXOPLANETS (2018)
Bailey, Jeremy; Kedziora-Chudczer, Lucyna; **Bott, Kimberly**; MNRAS, Volume 480, Issue 2, p. 1613-1625
 19. POLARIZATION DUE TO ROTATIONAL DISTORTION IN THE BRIGHT STAR REGULUS (2017)
Cotton, Daniel V.; Bailey, Jeremy; Howarth, Ian D.; **Bott, Kimberly**; Kedziora-Chudczer, Lucyna; Lucas, P.W.; Hough, J.H.; Nature Astronomy, Volume 1, p. 690-696
 20. THE INTRINSIC AND INTERSTELLAR BROADBAND LINEAR POLARISATION OF NEARBY FGK DWARFS (2017)
Cotton, Daniel V.; Marshall, Jonathan; Bailey, Jeremy; Kedziora-Chudczer, Lucyna; **Bott, Kimberly**; MNRAS, Volume 467, Issue 1, p. 873-897
 21. POLARISATION MEASUREMENTS OF HOT DUST STARS IN THE LOCAL INTERSTELLAR MEDIUM (2016)
Marshall, J.P.; Cotton, D.V.; **Bott, K.**; Ertel, S.; Kennedy, G.M.; Wyatt, M.C.; del Burgo, C.; Absil, O.; Bailey, J.; Kedziora-Chudczer, L.; ApJ, Volume 825, Issue 2, Article id 124
 22. THE POLARISATION OF HD 189733 (2016)
Bott, Kimberly; Bailey, Jeremy; Kedziora-Chudczer, Lucyna; Cotton, Daniel; Lucas, Phillip; Marshall, Jonathan; Hough, James; MNRAS Letters, Volume 459, Issue 1, p.L109-L113
 23. AN OPTICAL TRANSMISSION SPECTRUM OF THE GIANT PLANET WASP-36 B (2016)
Mancini, L.; Kemmer, J.; Southworth, J.; **Bott, K.**; Molliere, P.; Ciceri, S.; Chen, G.; Henning, Th.; MNRAS, Volume 459, Issue 2, p.1393-1402
 24. PHYSICAL PROPERTIES OF THE PLANETARY SYSTEMS WASP-45 AND WASP-46 FROM SIMULTANEOUS MULTI-BAND PHOTOMETRY (2016)
Ciceri, S.; Mancini, L.; Southworth, J.; Lendl, M.; Tregloan-Reed, J.; Brahm, R.; Chen, G.; D’Ago, G.; Dominik, M.; Figuera Jaimes, R.; Galianni, P.; Harpsøe, K.; Hinse, T.C.; Jørgensen, U.G.; Juncher, D.; Korhonen, H.; Liebig, C.; Rabus, M.; Bonomo, A.S.; **Bott, K.**; Henning, Th.; Jordàn, A.; Sozzetti, A.; Alsubai, K.A.; Andersen, J.M.; Bajek, D.; Bozza, V.; Bramich, D.M.; Browne, P.; Calchi Novati, S.; Damerdji, Y.; Diehl, C.; Elyiv, A.; Giannini, E.; Gu, S-H.; Hundertmark, M.; Kains, N; Penny, M.;

- Popovas, A.; Rahvar, S.; Scarpetta, G.; Schmidt, R.W.; Skottfelt, J.; Snodgrass, C.; Surdej, J.; Vilela, C.; Wambsganß, J.; Wang, X-B.; Wertz, O.; MNRAS, Vol. 456, Issue 1, p 990-1002.
25. THE LINEAR POLARISATION OF SOUTHERN BRIGHT STARS MEASURED AT THE PARTS-PER-MILLION LEVEL (2016)
Cotton, Daniel; Bailey, Jeremy; Kedziora-Chudczer, Lucyna; **Bott, Kimberly**; Hough, James; Lucas, Phillip; Marshall, Jonathan; MNRAS, Vol. 455, Issue 2, p 1607-1628.
26. A HIGH-SENSITIVITY POLARIMETER USING A FERRO-ELECTRIC LIQUID CRYSTAL MODULATOR (2015)
Bailey, Jeremy; Kedziora-Chudczer, Lucyna; Cotton, Daniel; **Bott, Kimberly**; Hough, James; Lucas, Phillip; MNRAS, Vol. 449, Issue 3, p.3064-3073.

Book Chapters and Peer-Reviewed Conference Proceedings

27. POLARIMETRIC BIOSIGNATURES AND HABITABILITY MARKERS
Bott, Kimberly; Oxford Research Encyclopedia of Planetary Science, under contract, Oxford University Press.
28. SEARCHING FOR EXTRATERRESTRIAL LIFE WITH POLARIZED LIGHT (INVITED PAPER)
Bott, Kimberly; 2023 Techniques and Instrumentation for Detection of Exoplanets XI. Vol. 12680. SPIE, 2023
29. THE INNER WORKING ANGLE YOU NEED TO DETECT OCEAN GLINTS WITH HABWORLDS (HWO)
Millar-Blanchaer, Maxwell; Vaughn, Sophia; **Bott, Kimberly**; + 6 co-authors Techniques and Instrumentation for Detection of Exoplanets XI. Vol. 12680. SPIE, 2023
30. VISIBLE EXTREME ADAPTIVE OPTICS ON EXTREMELY LARGE TELESCOPES: TOWARDS DETECTING OXYGEN IN PROXIMA B AND ANALOGS
Fowler, Jules; + 39 co-authors including **Bott, Kimberly**; Techniques and Instrumentation for Detection of Exoplanets XI. Vol. 12680. SPIE, 2023
31. HYBRID CORONAGRAPHIC-PHOTONIC SYSTEMS FOR FUTURE SPACE TELESCOPES
Desai, Niyati; + 38 co-authors including **Bott, Kimberly**; 2023 Proceedings of the SPIE, Vol. 12680, SPIE, 2023.
32. HARVESTING LOST PHOTONS IN STELLAR CORONAGRAPHS
Altinier, Lisa; + 36 co-authors including **Bott, Kimberly**; 2023 Proceedings of the SPIE, Vol. 12680, SPIE, 2023.
33. ATMOSPHERIC MODELING FOR NEPTUNE'S METHANE D/H RATIO - PRELIMINARY RESULTS
Cotton, Daniel; Kedziora-Chudczer, Lucyna; **Bott, Kimberly**; Bailey, Jeremy; 2015 Proceedings of 14th Australian Space Research Conference.
34. VSTAR MODELING OF THE INFRARED SPECTRUM OF URANUS
Bott, Kimberly; Kedziora-Chudczer, Lucyna; Bailey, Jeremy; 2013 Proceedings of 13th Australian Space Research Conference.
35. COMMISSIONING OF THE INFRARED IMAGING SURVEY (IRIS) SYSTEM
Hodapp, Klaus; Chini, Rolf; Reipurth, Bo; Murphy, Miguel; Lemke, Roland; Watermann, Ramon; Jacobson, Shane; Chonis, Taylor; Dement, Denny; Terrien, Ryan; **Bott, Kimberly**; Provence, Sydney; 2010 Proceedings of the SPIE, Vol. 7735, id. 77351A.