Kyle P. Batra

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Purdue University	47007	batra15@purdue.edu	+1(781) 492-0803
West Lafayette, IN	47907	Dept. of Earth, Atmospheric	, and Planetary Sciences
EDUCATION Expected 2026	Purdue Uni	arth, Atmospheric, and Planetar iversity, West Lafayette, IN tephanie Olson	ry Sciences
2021	Minor wit l The Pennsy	Laude with Honors in Astronom h Honors in Astrobiology, Minor ylvania State University, University onors College	r in Physics
RESEARCH & PRO	FESSIONAI	L EXPERIENCE	
2021 – Present	-	iversity t of Earth Atmospheric, and Plane lidate, Advisor: Stephanie Olson	tary Sciences
2017 - 2021	Departmen	vlvania State University t of Astronomy & Astrophysics, G uate Researcher, Advisor: Bradford	
HONORS & AWAR	DS		
2021 2021 2020 - 2021 2020 2020 2019 2017 - 2021	PSU Under NASA Pen Erikson Dis National So Schreyer H	ching Honor Roll, Fall Semester rgraduate Research Exhibition, Phy nsylvania Space Grant Consortiun scovery Research Grant cience Foundation Research Grant onors College Research Grant Dean's List every Semester	n Scholarship
PUBLICATIONS 2021	buo	bley B, "Scaling laws for stagnant- yant crust", <i>Geophysical Journal I</i> ie 1, January 2022, Pages 631–663	International, Volume 228,
SCIENTIFIC PRESE	ENTATIONS	5	
July 2023	Habitable Z	<i>Dcean Salinity and Planetary Oblig</i> <i>Zone,</i> Goldschmidt Conference	
December 2022	1	<i>Ocean Salinity and Climate at the Zone</i> , AGU Fall Meeting	Outer Reaches of the
July 2022	Ocean Sali	nity and Climate in the Outer Read dt Conference (Flash Talk & Poste	
May 2022	Ocean Sali	nity and Climate at the Outer Edge ars and M-dwarfs, AGU AbSciCor	e of the Habitable Zone of
April 2021	Scaling law	vs for stagnant-lid convection with ustal layers, PSU Undergraduate F	buoyant and negatively

December 2020	Scaling laws for stagnant-lid convection with buoyant and negatively buoyant crustal layers, AGU Fall Meeting
April 2020	Scaling laws for stagnant-lid convection with buoyant and nonbuoyant crusts, PSU Undergraduate Research Exhibition
March 2020	Scaling laws for stagnant-lid convection with buoyant and negatively buoyant crustal layers, LPSC
December 2019	<i>Scaling laws for stagnant lid convection with a buoyant crust</i> , AGU Fall Meeting
December 2018	Scaling laws for stagnant lid convection with a buoyant crust, AGU Fall Meeting
Colloquia , Seminars	e
July 2021	Scaling laws for stagnant-lid convection with a buoyant crust, Department of Astronomy & Astrophysics, Penn State University, Astronomy on Tap
April 2021	Scaling laws for stagnant-lid convection with a buoyant and negatively buoyant crustal layers, Department of Astronomy & Astrophysics, Penn State University, Lunch Talk
November 2019	<i>Early Martian Climate and the Mars Rovers</i> , Department of Geosciences, Penn State University, Lunch Talk
November 2019	<i>Planet Habitability, Mars,</i> Department of Geosciences, Penn State University, Guest Lecturer

MENTORSHIP

John Coulter (Planetary Science Major, Biology Minor)

2023 – Present	Purdue Undergrad Research Advising on Waterworld Exoplanets			
Benjamin Carpenter (Planetary Science Major, Astronomy Minor)				
2022 - 2023	Purdue Undergrad Research Advising on Waterworld Exoplanets			

TEACHING EXPERIENCE

Teaching assistant for:2021Earth Through Time, Purdue2021General Physics Mechanics, PSU2020Distant Universe Astronomy, PSU2019Solar System Astronomy, PSU2018Schreyer Honors Orientation Mentor, PSUOUTREACH

2022 – Present	Purdue LGBTQ+ Grad Volunteering	
2020 - 2021	Research Ambassador & Mentor for the Office of Undergraduate	
	Research & Fellowships Mentoring	
2018 - 2021	LGBTQ+ in STEM Outreach through OSTEM	
2017 - 2021	Department of Astronomy & Astrophysics Volunteer	

TECHNICAL SKILLS

Languages: English (fluent), German (fluent), Spanish (proficient)

Coding Software & Programming: ROCKE-3D, FORTRAN, MATLAB, Python,

Mathematica, LaTeX, Unix, AstroImageJ, Nebulosity4, SAOImageDS9, Microsoft Office,

Excel, PowerPoint. Adobe Photoshop, Adobe Illustrator

Operating Systems: Windows, MacOS, Linux (proficient)