

Thea Kozakis

ASTROPHYSICIST · ASTROBIOLOGIST

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“Imagination will often carry us to worlds that never were, but without it we go nowhere.” - Carl Sagan

Education

PhD Astrophysics

CARL SAGAN INSTITUTE, CORNELL UNIVERSITY

- Advisor: Lisa Kaltenegger
- Thesis: Stellar UV Environments and Planetary Habitability Throughout Stellar Evolution

Ithaca, New York, USA

Expected 2019

MS Astrophysics

CARL SAGAN INSTITUTE, CORNELL UNIVERSITY

- Advisor: Lisa Kaltenegger
- Funded by New York Space Grant

Ithaca, New York, USA

May 2016*

*medical exemption granted from the University for the 2015-2016 academic year

BS Astrophysics, BS Physics

COLLEGE OF CHARLESTON

- Advisor: Joseph Carson
- Thesis: Directly Imaging Planets Around High-Mass Stars

Charleston, South Carolina, USA

May 2013

Academic Honors & Grants

2016 **Eleanor York Prize**, Astronomy and Space Sciences Department

Cornell University

2015 **Exemplary Poster Award**, Emerging Researchers in Exoplanet Science Symposium

Pennsylvania State University

2013-2014 **NASA New York Space Grant**, NASA New York Space Grant Consortium

Cornell University

2014, 2015 **NSF Graduate Fellowship Honorable Mention**, National Science Foundation

Cornell University

2013 **Outstanding Undergraduate Research Award**, South Carolina Academy of Science

College of Charleston

2013 **Department Honors Award**, Department of Physics & Astronomy

College of Charleston

2013 **Outstanding Student Award**, School of Sciences and Mathematics

College of Charleston

2012 **Major Academic Year Support Grant**, School of Sciences and Mathematics

College of Charleston

2012 **Summer Undergraduate Research with Faculty Grant**, School of Sciences and Mathematics

College of Charleston

2012 **Goldwater Scholarship Honorable Mention**, Scholarship & Excellence in Education Foundation

College of Charleston

Presentations

Life After (Stellar) Death: Habitability Around White Dwarfs

Cornell University, Ithaca, NY, USA

PLANETARY LUNCH TALK SERIES, talk

August 2018

Dying to Live: Post-Main Sequence Habitability

Cornell University, Ithaca, NY, USA

GRADUATE STUDENT/POST-DOCTORATE SEMINAR talk

August 2018

Atmospheres and UV Ground Environment for Planets Orbiting Red Giants

Boston, Massachusetts, USA

COOL STARS 20, POSTER

August 2018

UV Surface Environments and Atmospheres of Earth-like Planets Orbiting White Dwarfs Invited talk	University of St Andrews, St Andrews, UK July 2018
UV Surface Environments and Atmospheres of Earth-like Planets Orbiting White Dwarfs Invited talk	University of Edinburgh, Edinburgh, UK July 2018
UV Surface Environments and Atmospheres of Earth-like Planets Orbiting White Dwarfs EXOPLANETS II poster	Cambridge University, Cambridge, UK July 2018
Do You Believe in Life After (Stellar) Death?: White Dwarf Habitability GRADUATE STUDENT/POST DOCTORATE SEMINAR talk	Cornell University, Ithaca, NY, USA June 2018
Atmospheres and UV Ground Environment for Planets Orbiting Red Giants EMERGING RESEARCHERS IN EXOPLANET SCIENCE SYMPOSIUM poster	Pennsylvania State University, State College, Pennsylvania, USA June 2018
Biosignatures and UV Environments of Earth-Like Planets Orbiting White Dwarfs EMERGING RESEARCHERS IN EXOPLANET SCIENCE SYMPOSIUM talk	Pennsylvania State University, State College, Pennsylvania, USA June 2017
Biosignatures and UV Environments of Earth-Like Planets Orbiting White Dwarfs ASTROBIOLOGY GRADUATE CONFERENCE talk	Charlottesville, VA, USA June 2017
Biosignatures and UV Environments of Earth-Like Planets Orbiting White Dwarfs ASTROBIOLOGY SCIENCE CONFERENCE poster	Mesa, AZ, USA April 2017
Age Rotation-Activity Relationship of Kepler Field Stars ASTROBIOLOGY SCIENCE CONFERENCE poster	Chicago, IL, USA June 2015
Age Rotation-Activity Relationship of Kepler Field Stars EMERGING RESEARCHERS IN EXOPLANET SCIENCE SYMPOSIUM poster	Pennsylvania State University, State College, Pennsylvania, USA May 2015
Direct Imaging Discovery of a ‘Super-Jupiter’ Around a Late B-Type Star SOUTH CAROLINA ACADEMY OF SCIENCE CONFERENCE poster	Columbia, South Carolina, USA April 2013
Direct Imaging Discovery of a ‘Super-Jupiter’ Around a Late B-Type Star SOUTH CAROLINA ACADEMY OF SCIENCE CONFERENCE talk	Columbia, South Carolina, USA April 2013
The Subaru SEEDS Imaging Search for Exoplanets Around High-Mass Stars AAS WINTER MEETING poster	Long Beach, California, USA January 2013
The Subaru SEEDS Imaging Search for Exoplanets Around High-Mass Stars AAS WINTER MEETING poster	Austin, TX, USA January 2012

Outreach/Media

Museum in the Dark ORGANIZER	Ithaca, NY, USA 2014-2017
<ul style="list-style-type: none"> • Halloween-themed outreach event at a local museum with astronomy related demos • Liaison between the museum and the astronomy department • Recruited/trained volunteers to run science demos and obtained/organized all materials for the event 	
4-H Focus for Teens Workshop ORGANIZER	Cornell University, Ithaca, NY, USA 2014-2017
<ul style="list-style-type: none"> • Summer outreach event for high school students in the New York 4-H program to attend STEM related workshops • Helped design/modify the 3 day workshop • Recruited/trained graduate student volunteers 	

Expanding Your Horizons

WORKSHOP DESIGNER/ORGANIZER

Cornell University, Ithaca, NY, USA

2015-present

- Yearly outreach event attended by middle school girls from New York to learn about the different STEM fields
- Part of the original astronomy workshop design team, team leader for the past 2 years
- Wrote yearly applications for event approval, recruit/train volunteers and run event

Astronomy Graduate Network

Cornell University, Ithaca, NY, USA

2013-present

FALL 2014 - SPRING 2015 (VICE PRESIDENT), FALL 2015 - SPRING 2016 (TREASURER)

- Organized meetings and events of AGN to foster community in the astronomy department
- Handled organization finances and wrote yearly budgets
- Part of Cornell's Ask an Astronomer Team answering weekly questions from the general public
- Volunteered at local schools to teach about careers in astronomy and STEM

Teaching

Teaching Assistant: From New Worlds to Black Holes

Cornell University, Ithaca, NY, USA

LECTURER: DR LISA KALTENEGGER

Fall 2018

- Introductory astronomy class focusing on the Universe as a whole
- Assisted in writing and grading homework assignments and exams
- Taught recitation sections and held office hours

Head Teaching Assistant: From New Worlds to Black Holes

Cornell University, Ithaca, NY, USA

Fall 2015

LECTURER: DR LISA KALTENEGGER

- Introductory astronomy class focusing on the Universe as a whole
- Organized other TAs, managed course website, and dealt with logistical issues
- Assisted in writing and grading homework assignments and exams
- Taught recitation sections and held office hours

Teaching Assistant: Our Solar System

Cornell University, Ithaca, NY, USA

Spring 2015

LECTURERS: DRS STEVE SQUYRES AND PHIL NICHOLSON

- Introductory astronomy class focusing on the Solar System
- Taught recitation sections and lab sections and held office hours
- Assisted in writing and grading homework assignments and exams

Teaching Assistant: A Spacecraft Tour of the Solar System: Science, Policy and Exploration

Cornell University, Ithaca, NY, USA

Fall 2014

LECTURER: DRS ALEXANDER HAYES

- Writing class focused on exploration of the Solar System
- Assisted in teaching students how to write popular science articles
- Graded written work and gave feedback and held office hours
- Managed course website

Teaching Assistant: Introductory Astronomy Lab

College of Charleston, SC USA

Fall 2010-Spring 2011

LAB MANAGER: CHRISTOPHER TRUE

- Introductory astronomy class
- Assisted instructor in running labs and teaching the students
- Set up telescopes

Physics Lab Manager's Assistant

College of Charleston, SC USA

Fall 2009-Spring 2013

LAB MANAGER: KATHLEEN LOW

- Helped prepare equipment for physics labs and assist lab instructors
- Organized lab materials and equipment
- Held office hours for students in introductory physics classes

Publications

UV Surface Environments and Atmospheres of Earth-like Planets Orbiting White Dwarfs, **T. Kozakis**, L. Kaltenegger, & D.W. Hoard. 2018, ApJ, 862, 69

Planet Hunters X. KIC 8462852: Where's the flux?, T. Boyajian, ... **T. Kozakis**, +47 co-authors 2016, MNRAS

Direct Imaging Discovery of a 'Super-Jupiter' Around the late B-Type Star κ And, J. Carson, C. Thalmann, M. Janson, **T. Kozakis**, +52 co-authors, 2013, Astrophysical Journal Letters, 763, 32

Computer Skills

Programming Languages	Proficient with IDL and Python, comfortable with HTML, familiar with Matlab and Fortran
Operating Systems	Skilled with Linux, Windows, and MAC OS X
Tools and Systems	Expert with \LaTeX and Mathematica, familiar with ArcGIS