

Thea Kozakis

ASTROPHYSICIST · ASTROBIOLOGIST

Carl Sagan Institute, Cornell University, Ithaca, New York, USA

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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

Ithaca, New York, USA

CARL SAGAN INSTITUTE, CORNELL UNIVERSITY

Expected 2019

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

MS Astrophysics

Ithaca, New York, USA

CARL SAGAN INSTITUTE, CORNELL UNIVERSITY

May 2017*

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

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

BS Astrophysics, BS Physics

Charleston, South Carolina, USA

COLLEGE OF CHARLESTON

May 2013

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

Academic Honors & Grants

2019	NASA New York Space Grant , NASA New York Space Grant Consortium	Cornell University
2017, 2018	Simons Collaboration on the Origins of Life Grant , Simons Foundation	Cornell University
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

Habitability of Post-Main Sequence Planetary Systems

Seattle, Washington, USA

AAS WINTER MEETING, talk

January 2019

Life After (Stellar) Death: Habitability Around White Dwarfs

Cornell University, Ithaca, New York, USA

PLANETARY LUNCH TALK SERIES, talk

August 2018

Dying to Live: Post-Main Sequence Habitability

Cornell University, Ithaca, New York, USA

GRADUATE STUDENT/POST-DOCTORATE SEMINAR talk

August 2018

Atmospheres and UV Ground Environment for Planets Orbiting Red Giants COOL STARS 20, POSTER	Boston, Massachusetts, USA 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, New York, 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, Virginia, USA June 2017
Biosignatures and UV Environments of Earth-Like Planets Orbiting White Dwarfs ASTROBIOLOGY SCIENCE CONFERENCE poster	Mesa, Arizona, USA April 2017
Age Rotation-Activity Relationship of Kepler Field Stars ASTROBIOLOGY SCIENCE CONFERENCE poster	Chicago, Illinois, 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

Teaching

Teaching Assistant: From New Worlds to Black Holes

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

Cornell University, Ithaca, NY, USA
Fall 2015 (Head TA), 2018

Teaching Assistant: Our Solar System

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

Cornell University, Ithaca, NY, USA
Spring 2015

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

Cornell University, Ithaca, NY, USA

LECTURER: DRS ALEXANDER HAYES

Fall 2014

- 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

Outreach

Expanding Your Horizons

Cornell University, Ithaca, NY, USA

WORKSHOP DESIGNER/ORGANIZER

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

Mental Health Counselor Training (EARS)

Ithaca, NY, USA

CERTIFIED MENTAL HEALTH COUNSELOR/TRAINER

2015-present

- Semester long training offered by EARS (Empathy Assistance and Referral Service), a walk-in mental health counseling program
- Give presentations on empathetic listening and communication skills to Cornell students of all levels
- Small group teaching of Cornell graduate students and post doctoral researchers skills of mental health counseling

Museum in the Dark

Ithaca, NY, USA

ORGANIZER

2014-2017

- 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

Cornell University, Ithaca, NY, USA

ORGANIZER

2014-2017

- 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

Astronomy Graduate Network

Cornell University, Ithaca, NY, USA

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

2013-present

- 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

Publications

Atmospheres and UV Environments of Earth-like Planets throughout Post-main-sequence Evolution, **T. Kozakis** & L. Kaltenegger. 2019, ApJ, 875, 99

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

References

Dr Lisa Kaltenegger

Cornell University

ASSOCIATE PROFESSOR OF ASTRONOMY, DIRECTOR OF THE CARL SAGAN INSTITUTE

Ithaca, New York, USA

Email: lkaltenegger@astro.cornell.edu

Dr Joseph Carson

College of Charleston

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Charleston, South Carolina, USA

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Dr Alexander Hayes

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Cornell University

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