

Thea Kozakis

ASTROPHYSICIST · ASTROBIOLOGIST

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

✉ theakozakis@gmail.com | 🌐 <http://theakozakis.com>

“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 Spring 2020

- 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

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

Presentations

Dying to Live: Post-Main Sequence Habitability

EXTREME SOLAR SYSTEMS IV, **Poster**

Reykjavík, Iceland

August 2019

Dying to Live: Post-Main Sequence Habitability

EXOCLIMES V, **Poster**

University of Oxford, Oxford, UK

August 2019

Atmospheres and UV Environments of Planets Throughout Post-Main Sequence Evolution

ASTROBIOLOGY GRADUATE CONFERENCE, **talk**

Salt Lake City, Utah, USA

July 2019

Atmospheres and UV Environments of Planets Throughout Post-Main Sequence Evolution

EMERGING RESEARCHERS IN EXOPLANET SCIENCE SYMPOSIUM, **talk**

Cornell University, Ithaca, New York, USA

June 2019

Habitability of Post-Main Sequence Planetary Systems

AAS WINTER MEETING, **talk**

Seattle, Washington, USA

January 2019

Life After (Stellar) Death: Habitability Around White Dwarfs

PLANETARY LUNCH TALK SERIES, **talk**

Cornell University, Ithaca, New York, USA

August 2018

Dying to Live: Post-Main Sequence Habitability

GRADUATE STUDENT/POST-DOCTORATE SEMINAR **talk**

Cornell University, Ithaca, New York, USA

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

Cornell University, Ithaca, NY, USA

Fall 2015 (Head TA), 2018

- 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

LECTURERS: DRS STEVE SQUYRES AND PHIL NICHOLSON

Cornell University, Ithaca, NY, USA

Spring 2015

- 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

LECTURER: DR ALEXANDER HAYES

Cornell University, Ithaca, NY, USA

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

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

Mental Health Counselor Training (EARS)

CERTIFIED MENTAL HEALTH COUNSELOR/TRAINER

Ithaca, NY, USA

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

ORGANIZER

Ithaca, NY, USA

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

ORGANIZER

Cornell University, Ithaca, NY, USA

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