

THEORETICAL ASTROPHYSICIST · PHD · U.S. CITIZEN · CURRICULUM VITAE

Canadian Institute for Theoretical Astrophysics, University of Toronto, 60 St. George Street, 14th floor, Toronto, ON. M5S 3H8, Canada

■ jzanazzi@cita.utoronto.ca | ★ sites.google.com/cornell.edu/jjzanazzi | +1(647)462-9646

Education

Cornell University, Dept. of Astronomy

PHD IN THEORETICAL ASTROPHYSICS, ADVISOR PROF. DONG LAI

Northern Arizona University

MERGED B.S. IN PHYSICS & ASTRONOMY

B.S. IN MATHEMATICS

Semester-Long Mathematics Programs

Math in Moscow Program, Independent Univ. of Moscow, Moscow, RU

MATHEMATICS ADVANCED STUDY SEMESTERS (MASS), PENN. STATE UNIV., STATE COLLEGE, PA, USA

Positions

Dept. of Astronomy, Univ. of California Berkeley

51 PEGASI B POSTDOCTORAL FELLOW

Canadian Institute for Theoretical Astrophysics (CITA), Univ. of Toronto

RESEARCH ASSOCIATE
POSTDOCTORAL FELLOW

Dept. of Applied Mathematics and Theoretical Physics (DAMTP), Univ. of Cambridge

DAVID CRIGHTON VISITING POSTDOCTORAL FELLOW

Dept. of Astronomy, Cornell Univ.

GRADUATE RESEARCH ASSISTANT

Berkeley, CA, USA

Ithaca, NY, USA

Sept. 2013 - Aug. 2018

Flagstaff, AZ, USA

Sept. 2009 - May 2013

Jan. 2013-May 2013

Sept. 2011-Dec. 2011

Sept. 2022-PRESENT

Toronto, ON, CA

Sept. 2021 - Aug. 2022

Sept. 2018 - Aug. 2021

Cambridge, UK

Sept. 2019 - Nov. 2019

Ithaca, NY, USA

Sept. 2015 - Aug. 2018

Research Highlights.

- Successful prediction of polar-aligned protoplanetary disks (Zanazzi & Lai 2018a; Kennedy et al. 2019, NatAs; Czekala et al. 2019)
- Prediction of primordial spin-orbit misalignment suppression for short-period planets with binary companions (Zanazzi & Lai 2018c; Montet et al. 2020; Hjorth et al. 2021, PNAS)
- Precessing magnetars explain periodic fast radio bursts (Zanazzi & Lai 2020, ApJL; Li & Zanazzi 2021, ApJL; Zhang 2020, Nature)
- Stellar binaries show signatures of circularization via resonance locking during the pre-main sequence (Zanazzi & Wu 2021; Zanazzi 2021)
- Eccentric accretion disks can power optically-bright Tidal Disruption Events (Zanazzi & Ogilvie 2020)

Honors & Awards

POSTGRADUATE

2022	51 Pegasi b Postdoctoral Fellowship, Prize fellowship to fund research at UC Berkeley	Heising-Simons Fdn
2019	David Crighton Fellowship, 2-3 month postgraduate grant to work at DAMTP	Univ. of Cambridge
2017	Eleanor York Prize, Recognition for academic achievement and service	Cornell Univ.
2015	Earth and Space Science Graduate Fellowship. Funded 3 years of graduate research at Cornell	NASA

UNDERGRADUATE

2013	Math in Moscow Scholarship, Funded study-abroad semester at Ind. Univ. of Moscow	AMS/NSF
2012	Honorable Mention, New Frontiers in Astronomy and Cosmology Student Essay Competition	Templeton Fdn.
2011	MASS Fellowship, Funded Mathematics Advanced Study Semesters (MASS) program	Penn State/NSF
2009	NAU/NASA Space Grant, Funded undergraduate exoplanetary research	AZ Space Grant

NAU Institutional Scholarships

- Arthur and Catherine B. Adel Scholarship Fund, Physics Dept., 2012
- Karen and Terrence Hall Scholarship, Math Dept., 2012
- Chair's Scholar, Physics Dept., 2011, 2010
- Alumni Scholarship, NAU, 2010

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SCIENTIFIC

Kanah Smith, CITA SURP Aurora Borealis Fellow

LEAD CO-ADVISOR WITH DR. JANOSZ DEWBERRY

• Project: The effect of tidal dissipation on circumbinary planet stability, in progress

Univ. of Toronto

Univ. of Toronto

May 2020-PRESENT

Niharika Namulla, CITA SURP Fellow

LEAD CO-ADVISOR WITH DR. JANOSZ DEWBERRY

May 2020-PRESENT Project: Using survival analysis to study the stability of circumbinary planets, in progress

Dongzi Li, CITA Graduate Student

COLLABORATOR, PHD ADVISOR PROF. UE-LI PEN

Project: Polarization of FRBs from precessing magnetars, student lead-author publ. in ApJL

Univ. of Toronto

May 2020-Feb. 2021

Univ. of Toronto

June 2019-Oct. 2021

Michael Poon, CPS, SURP, and McGill Undergraduate Research Fellow

LEAD ADVISOR

• Project 3: Planetary Obliquities in the HR 8799 planetary system in progress

• Project 2: Inertial wave dissipation efficiency constrains using stellar obliquities in hot Jupiter systems, student lead-author publ. in-prep.

· Project 1: Constraining the circumbinary disk tilt in the KH 15D system, student lead-author publ. in MNRAS

Jessica Speedie, NSERC USRA SURP Fellow

Univ. of Toronto

May 2019-Sept. 2019

• Project: The structure and stability of inclined, circumplanetary disk or ring systems, lead-author publ. in MNRAS

PROFESSIONAL

LEAD ADVISOR

Dunlap Institute Postdoc-Student Mentorship program PROFESSIONAL ADVISE TO UNIV. OF TORONTO ASTRONOMY GRADUATE STUDENTS

Toronto, CA

May 2020-current

· Students: Adaeze Ibik, Jennifer Scora

Girls SySTEM Mentorship program

Toronto, CA

Professional advise for female high-school students interested in a STEM career, in the Greater Toronto Area

• Students: Bernadette Tolentino

May 2020-June 2020

Teaching Experience

TEACHING ASSISTANT

"The History of the Universe," Writing in the Disciplines Course (Astro 2201)

Cornell Univ.

TEACHING ASSISTANT TEACHING ASSISTANT Spring 2015 Fall 2013

Duties: Give guest lectures, assist in design of essay prompts, grade essays written by students.

"The History of the Universe" (Astro 1101)

Cornell Univ.

TEACHING ASSISTANT

Fall 2014

Duties: Give weekly break-out session lectures to two groups of ∼10 students, grade problem sets

"Relativity and Astrophyiscs" Massively on-line open course (Astro 2290x)

Cornell Univ.

TEACHING ASSISTANT

Spring 2014

Duties: assist designing on-line problem sets, answer questions of $\gtrsim 10,000$ students on course chat boards

UNDERGRADUATE WORKSHOPS

"How to Write an Abstract", SURP Professional Development Workshop Series

Univ of Toronto

INSTRUCTOR & ORGANIZER

July 23, 2019 June 16, 2020

INSTRUCTOR & ORGANIZER Hands-on workshop, which included asking undergrad research students to write an abstract on their current projects.

Workshop on Gravitation and Pulsars **ASSISTANT INSTRUCTOR**

Cornell Univ. July 19, 2016

Assisted running a workshop teaching pulsar timing data-analysis techniques to undergraduate researchers.

Physics GRE Workshop

Cornell Univ.

INSTRUCTOR & ORGANIZER

June 30, 2016

Organized and lead workshop on test preparation for Physics GRE, aimed at visiting Undergraduate Research Assistants.

GUEST LECTURES

J. J. ZANAZZI · CURRICULUM VITAE MARCH 11, 2022

Guest Lecturer, Astro 101 SURP Lecture Series Univ. of Toronto LECTURE: Orbital Dynamics and Tidal Evolution in Stellar and Planetary/Exoplanetary Systems June 3 2020 LECTURE: Orbital Dynamics and Tidal Evolution in Stellar and Planetary/Exoplanetary Systems June 1, 2019 **Guest Lecturer, Introduction to Astrophysics (AST 320)** Univ. of Toronto LECTURE: How to Build a Star/Planet Dec. 13, 2019 **CITA Blackboard Talks** Univ. of Toronto LECTURE: The Structure and Dynamics of Warped Accretion Disks Oct. 16, 2018 LECTURE: How Dust Scattering can hide Mass in ALMA Protoplanetary Disks Apr. 30, 2019

TUTORING

Academic Success Center

Northern Arizona Univ.

Physics & Mathematics Undergraduate Tutor

Oct. 2010-Mar. 2011

Nov. 19, 2019

Mar. 31, 2020

Duties: One-on-one tutoring of undergraduate students for Physics and Mathematics courses. Worked 10 hours/week.

LECTURE: Optical Emission from Tidal Disruption Events of Stars around Supermassive Black Holes

LECTURE: Magnetic Interactions between Protoplanetary Disks and their Spinning Host Stars

Observing Proposals ___

CO-INVESTIGATOR

ESO DDT Proposal

PI Prof. Simon Albrecht, obtained 6.3 hours on EXPRESSO

June 9, 2019

• Title: A multi-transiting planet system with a retrograde orbiting planet: testing coplanarity and primordial disk misalignment

Service.

Astronomy Anti-Racism Committee, University of TorontoFall 2021-PRESENTConference Co-organizer, Canada Planet Discussion DaySummer 2021Summer Undergraduate Research Program (SURP) Committee, University of TorontoSummer 2020Blackboard Talk Committee, Canadian Institute for Theoretical AstrophysicsFall 2019-PRESENT

Panel Reviewer, NSF Astronomy & Astrophysics Program
Panel Reviewer, NASA Exoplanets Research Program
Panel Reviewer, NASA Theoretical Astrophysics Program
External Reviewer, UKRI STFC DiRAC HPC Proposal

Executive Secretary, NASA Exoplanetary Formation and Dynamics Program

SURP Poster Judge, University of Toronto

Summer 2019- Summer 2021

Colloquium Representative, Astronomy Graduate Network, Cornell University

Spring 2018

Referee, MNRAS, ApJL, ApJ, A&A, PSJ

Outreach_

Fayetteville Free Library Geek Girl Camp

Cornell Univ.

ACTIVITY COORDINATOR: NASA'S EDIBLE ROCKS

July 2018

Lead activity teaching meteor classification to middle school science camp for girls.

Fuertes Observatory Solar Eclipse Viewing

Cornell Univ.

ACTIVITY ASSISTANT: ECLIPSE VIEWING

July 2018

Handed out glasses and set up telescopes to safely view the great American eclipse for a few thousand visitors.

4-H Focus for Teens Career Explorations

Cornell Univ.

ACTIVITY ORGANIZER: SUPERNOVAE WORKSHOP

June 2014-June 2016

Lead workshop on supernovae and nucleosynthesis for sixth grade students (once per year).

Southside Community Center

Ithaca, NY

OUTREACH VISIT, ASSISTANT ROLE

Sept. 2014

Afternoon visit, doing astronomy-themed educational activities for underprivileged elementary school children.

Career Day

Cornell Univ. June 2014-June 2015

POPULAR ASTRONOMY LECTURE

Cover talk about noutron stars to visiting sixth grade students (an

Gave talk about neutron stars to visiting sixth grade students (once per year).

Museum in the Dark, Museum of the Earth

Ithaca, NY

SPANDEX-UNIVERSE DEMO COORDINATOR

Oct. 2013-Oct. 2015

Manned "The Spandex Universe" demo, explaining relativity to the general public (once per year).

March 11, 2022 J. J. Zanazzi · Curriculum Vitae

Science Communication Training

ComSciCon-CornellCornell Univ.WORKSHOP PARTICIPANTMay 21-29 2015

Participated in week-long science communication workshop for graduate students and post-docs

References

Eugene Chiang

PROFESSOR, DEPT. OF ASTRONOMY AND EARTH & PLANETARY SCIENCE, UNIV. OF CALIFORNIA BERKELEY

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Phone: (510)701-5996

Email: echiang@astro.berkeley.edu

Norman Murray

Professor, Canadian Institute for Theoretical Astrophysics, Univ. of Toronto

Address: McLennan Physical Laboratories, Room 1404D, 60 St. George Street, Toronto Ontario M5S 3H8

Phone: 416-978-1778

Email: murray@cita.utoronto.ca

Gordon Ogilvie

Professor, Dept. of Mathematics and Theoretical Physics, Univ. of Cambridge

Address: Centre for Mathematical Sciences, Wilberforce Road, Cambridge CB3 0WA, United Kingdom

Phone: +44-(0)1223-760395 Email: gio10@cam.ac.uk

Dong Lai

PROFESSOR, DEPT. OF ASTRONOMY, CORNELL UNIV.

Address: 618 Space Sciences Building, Cornell University, Ithaca, NY 14853

Phone: 607-255-4936

Email: dong@astro.cornell.edu