

## Education

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|---|---|
| <b>Massachusetts Institute of Technology</b><br><i>Ph.D., Department of Physics, Center for Space Research</i>        | <b>Cambridge, Massachusetts</b><br><i>January 1991 – June 1996</i>      |
| <b>Massachusetts Institute of Technology</b><br><i>M.S., Department of Aeronautical and Astronautical Engineering</i> | <b>Cambridge, Massachusetts</b><br><i>September 1989 – January 1991</i> |
| <b>California Institute of Technology</b><br><i>B.S. Applied Physics, with Honors</i>                                 | <b>Pasadena, California</b><br><i>October 1985 – June 1988</i>          |

## Professional Appointments

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|---|--|
| <b>University of Hawai'i at Mānoa</b><br><i>Professor, Department of Earth Sciences</i>   | <b>Honolulu, Hawaii</b><br><i>August 2010 – Present</i>        |
| <b>University of Hawai'i at Mānoa</b><br><i>Associate Professor, Department of Earth Sciences</i>   | <b>Honolulu, Hawaii</b><br><i>August 2006 – August 2010</i>    |
| <b>University of Hawai'i at Mānoa</b><br><i>Assistant Professor, Department of Earth Sciences</i>   | <b>Honolulu, Hawaii</b><br><i>August 2001 – August 2006</i>    |
| <b>California Institute of Technology Jet Propulsion Laboratory</b><br><i>Postdoctoral Associate, Division of Geological and Planetary Sciences</i> | <b>Pasadena, California</b><br><i>May 1997 – May 2001</i>      |
| <b>Massachusetts Institute of Technology</b><br><i>Postdoctoral Associate, Center for Space Research</i>  | <b>Cambridge, Massachusetts</b><br><i>June 1996 – May 1997</i> |

## Auxiliary Appointments

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| <b>University of Vienna</b><br><i>Senior Affiliate, Institute for Astrophysics</i>                       | <b>Vienna, Austria</b><br><i>2021 – Present</i>  |
| <b>University of Hawai'i at Mānoa</b><br><i>Cooperating Graduate Faculty, Institute for Astronomy</i>    | <b>Honolulu, Hawaii</b><br><i>2021 – Present</i> |
| <b>University of Hawai'i at Mānoa</b><br><i>Cooperating Graduate Faculty, Department of Oceanography</i> | <b>Honolulu, Hawaii</b><br><i>2002 – Present</i> |

## Instructional Portfolio

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**ERTH 101: Voyage of the *Vicariance*: A Geography of Time** (undergrad, 3 semester-hrs)

**ERTH 610: Graduate Seminar:** (post-graduate, 1 semester-hour)

**ERTH 616: Scientific Writing:** (post-graduate, 3 semester-hours).

**ERTH 669: Origins of Solar Systems** (post-graduate, 3 semester-hours)

ERTH 673: Planetary Systems II: A Material Perspective (post-graduate, 3 semester-hours).  
ERTH 710: Archaeology Meets the Earth & Space Sciences: (postgraduate, 2 semester hours).  
ERTH 711: Planetary Systems I: A Data-Driven Approach (post-graduate, 3 semester-hours).

## Other Academic Appointments since Ph.D.

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| <b>ETH</b><br><i>Visiting Professor, Institute for Particle Physics and Astrophysics</i>   | <b>Zurich, Switzerland</b><br>August – November 2022    |
| <b>University of Vienna</b><br><i>Ida Pfeiffer Professor, Institute for Astrophysics</i>   | <b>Vienna, Austria</b><br>March – August 2021           |
| <b>University of Bern</b><br><i>Visiting Professor, Center for Space and Habitability</i>  | <b>Bern, Switzerland</b><br>September – March 2021      |
| <b>University of Göttingen</b><br><i>Visiting Professor, Institute for Astrophysics</i>  | <b>Göttingen, Germany</b><br>October – December 2019    |
| <b>University of Vienna</b><br><i>Fulbright Fellow, Institute for Astrophysics</i>   | <b>Vienna, Austria</b><br>September 2016 – January 2017 |
| <b>International Space Science Institute</b><br><i>Visiting Professor</i>  | <b>Bern, Switzerland</b><br>August – September 2016     |
| <b>Center for Space and Habitability</b><br><i>Visiting Professor</i>  | <b>Bern, Switzerland</b><br>May - July 2016             |
| <b>Geneva Observatory</b><br><i>Swiss National Science Foundation Fellow</i>   | <b>Versoix, Switzerland</b><br>April – Augusts 2015     |
| <b>Harvard-Smithsonian Center for Astrophysics</b><br><i>Visiting Sabbatical Professor, Institute for Theory and Computation</i> | <b>Cambridge, Massachusetts</b><br>March – August 2015  |
| <b>Max Planck Institute for Astronomy, Heidelberg</b><br><i>Visiting Scientist</i>   | <b>Heidelberg, Germany</b><br>July 2014 – January 2015  |
| <b>University of Lund</b><br><i>Chair of Astrobiology, Pufendorf Institute for Advanced Studies</i>                              | <b>Lund, Sweden</b><br>May – November 2011              |
| <b>University of California, Berkeley</b><br><i>Visiting Sabbatical Professor, Dept. of Earth &amp; Planetary Sciences</i>       | <b>Berkeley, California</b><br>August – December 2007   |
| <b>Center for Astrophysics Research of Lyon</b><br><i>Visiting Scientist</i>   | <b>Lyon, France</b><br>October 2005                     |

## Other Professional Positions:

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|---|--|
| <b>National Academies of Science, Engineering and Medicine</b><br><i>Christine Mirzayan Fellow, Division of Earth and Life Sciences</i> | <b>Washington, DC</b><br>May 2001 – September 2001 |
| <b>Paracel, Inc.</b><br><i>Consultant, bioinformatics for Celera Human Genome Sequencing Project</i>                                    | <b>Pasadena, California</b><br>1999 – 2001         |

Ecole Polytechnique de Lausanne (EPFL)  
*Visiting Researcher, Department of Fluid Dynamics*

Lausanne, Switzerland  
*June – August 1990*

National Center for Space Research (CNES)  
*Engineer, CNES-Planetary Society Mars Balloon Project*

Toulouse, France  
*September 1988 – August 1989*

## Extramural Research Funding (Total of \$11,629,190; active in bold)

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| <b>NASA Hubble Guest Observer Cycle 30 (PI)</b><br><i>"Photometry of a Young Planetary-Mass Companion to a Taurus M Dwarf Star"</i>                            | <b>\$34,824</b><br>2023–2024    |
| <b>NASA TESS Guest Observer Cycle 4 (PI)</b><br><i>"Rotation And Multiplicity Among Hyades M Dwarfs"</i>   | <b>\$50,000</b><br>2021–2022    |
| <b>NASA Solar System Workings (co-PI)</b><br><i>"Planet of Steel: Carbon and the Inner Workings of Mercury's Core"</i>   | <b>\$559,426</b><br>2021–2024   |
| <b>NASA Swift Guest Observer Cycle 17 (PI)</b><br><i>"X-raying the Inner Disk of a "Dipper" Star with Swift"</i>   | <b>\$47,000</b><br>2021–2022    |
| <b>NSF Astronomy and Astrophysics Research Grants (PI)</b><br><i>"Catch a Fading Star: Using Transient Dimming to Explore Planet-Forming Zones...."</i>        | <b>\$697,010</b><br>2021–2024   |
| <b>NASA Interdisciplinary Consortia for Astrobiology Research (PI)</b><br><i>"Follow the Volatiles: Tracing chemical species relevant to habitability...."</i> | <b>\$1,734,191</b><br>2021–2026 |
| <b>NASA TESS Guest Observer Cycle 4 (co-PI)</b><br><i>"Mass Measurement of TESS Transiting Candidate Companions"</i>   | <b>\$75,000</b><br>2020–2021    |
| <b>NASA Exoplanets Research Program (PI)</b><br><i>"Comparative Evolution of Small Planets Close to Cool Stars"</i>  | <b>\$298,807</b><br>2020–2023   |
| <b>NASA Exoplanets Research Program (Co-PI)</b><br><i>"Precise Near-Infrared RV Measurements of Planet Candidates Identified by TESS"</i>                      | <b>\$478,549</b><br>2019–2022   |
| <b>NASA TESS Guest Observer Cycle 2 (PI)</b><br><i>"A survey of transient stellar dimming in TESS FFI lightcurves"</i>   | <b>\$50,000</b><br>2019–2021    |
| <b>NASA Astrophysics Data Analysis Program (PI)</b><br><i>"Using K2 to explore episodic stellar variability during the epoch of planet formation"</i>          | <b>\$199,882</b><br>2019–2022   |
| <b>NSF Astronomy &amp; Astrophysics Research Grants (PI)</b><br><i>"A new spin on M dwarf ages and evolution"</i>  | <b>\$293,735</b><br>2018–2022   |
| <b>NSF Astronomy &amp; Astrophysics Research Grants (co-PI)</b><br><i>"Refining the radii of exoplanet host stars"</i>   | <b>\$278,033</b><br>2017–2021   |
| <b>NASA K2 Guest Observer Cycle 6 (co-PI)</b><br><i>"Solving the mystery of hot Jupiter inflation with K2"</i>   | <b>\$30,000</b><br>2017–2021    |
| <b>NASA K2 Guest Observer Cycle 4 (co-PI)</b><br><i>"Zodiacal Exoplanets in Time (ZEIT): The Hyades Cluster"</i>   | <b>\$41,259</b><br>2017–2021    |
| <b>NASA K2 Guest Observer Cycle 2 (co-PI)</b><br><i>"Giants orbiting Giants: A search for transiting planets around oscillating RGB stars"</i>                 | <b>\$38,000</b><br>2017–2021    |

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| <b>Sloan Foundation Deep Carbon Observatory, Census for Deep Life (PI)</b><br><i>"Ice-Covered Icelandic Crater Lake Ecosystem Study"</i>                                      | <b>\$25,000</b><br>2017–2021    |
| <b>NASA Origins of Solar Systems (PI)</b><br><i>"A combined Doppler and photometric search for signpost planets around M dwarfs"</i>  | <b>\$373,445</b><br>2017–2021   |
| <b>NASA Astrobiology: Exobiology and Evolutionary Biology (PI)</b><br><i>"Formation, evolution, and detection of planets close to cool stars"</i>                             | <b>\$357,0673</b><br>2017–2021  |
| <b>NSF Astronomy &amp; Astrophysics Research Grants (co-PI)</b><br><i>"Targets for planets: a database of nearby stars suitable for exoplanet surveys"</i>                    | <b>\$174,022</b><br>2017–2021   |
| <b>NSF Graduate Student Fellowship Program (PI for student)</b><br><i>"Physical and chemical processes in the atmospheres of planetary embryos"</i>                           | <b>\$75,000</b><br>2017–2021    |
| <b>NASA Terrestrial Planet Finder Foundation Science (PI)</b><br><i>"Observable signatures of extreme seasonality on Earth-like planets...."</i>                              | <b>\$249,426</b><br>2017–2021   |
| <b>NASA Newton-XMM Telescope Observing Support (co-I)</b><br><i>"The Nature of the Flaring Companion to HD 43162"</i>   | <b>\$36,400</b><br>2017–2021    |
| <b>NASA Astrobiology Institute Director's Discretionary Fund (PI)</b><br><i>"Diversity, phylogeny, and genetics of the basal metazoan Trichoplax adhaerens"</i>               | <b>\$50,000</b><br>2017–2021    |
| <b>NASA Astrobiology Institute Cooperative Agreement Notice-3 (co-PI)</b><br><i>"The origin, history, and distribution of water and its relation to life in the Universe"</i> | <b>\$5,171,596</b><br>2003–2008 |
| <b>NSF Biogeosciences (PI)</b><br><i>"Microcosm Investigations of Carbonate Reef Microbial Biogeochemistry"</i>   | <b>\$79,000</b><br>2017–2021    |
| <b>NSF Biocomplexity in the Environment, Coupled Biogeochem. Cycles (PI)</b><br><i>"Cycles of Carbon and Nitrogen in an Ice-covered Volcanic Crater Lake"</i>                 | <b>\$98,456</b><br>2001–2002    |

## Extramural Professional Service

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| <b>KITP Program on Rocky Planet Formation in Inner Protoplanetary Disks</b><br><i>Kavli Institute for Theoretical Physics, Santa Barbara, USA</i>   | <b>Co-Organizer</b><br><i>April–May 2025</i> |
| <b>Observing techniques, instrumentation and science for metre-class telescopes III</b><br><i>Tatranská Lomnica, Slovakia</i>   | <b>SOC</b><br><i>11–15 September 2023</i>    |
| <b>NASA Funding Proposal Review Panels</b><br><i>Astrophysics Data Analysis; Medium-Class Explorers &amp; Missions of Opportunity</i><br><i>NASA Astrobiology Institute Cooperative Agreement Notice; Origins of Solar Systems, HST, JWST</i> | <b>Member</b><br><i>Ongoing</i>              |
| <b>NSF Funding Proposal Review Panels</b><br><i>Faculty Early Career Development Program</i>  | <b>Member</b><br><i>Ongoing</i>              |
| <b>Peer Review of Journal Manuscripts</b><br><i>The Astrophysical Journal; The Astronomical Journal; Monthly Notices of the Royal Astronomical Society; Icarus; Journal of Geophysical Research - Planets</i>                                 | <b>Reviewer</b><br><i>Ongoing</i>            |
| <b>NASA TESS Mission, Atmospheres Working Group</b>   | <b>Member</b><br>2014–2021                   |

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| <b>TESS Science Meeting I</b><br><i>Cambridge, USA</i>   | <b>SOC</b><br><i>July 2019</i>                   |
| <b>Exoplanet Science Working Group, Origins Space Telescope Project</b>  | <b>Member</b><br><i>2017–2019</i>                |
| <b>International Science Definition Team for Exoplanets, Thirty Meter Telescope</b>                                | <b>Member</b><br><i>2014–present</i>             |
| <b>Session on “M Dwarfs in the Light of Exoplanets” at Cool Stars 17</b><br><i>Barcelona, Spain</i>                | <b>Organizer</b><br><i>October 2012</i>          |
| <b>Workshop: Transiting Planets in the House of the Sun: M Dwarfs and their Planets</b><br><i>Kula, Maui, USA</i>  | <b>Organizer</b><br><i>June 2012</i>             |
| <b>Session on “Geology of Exoplanets” at Exoplanets for Planetary Scientists Conference</b><br><i>Orlando, USA</i> | <b>Chair</b><br><i>December 2010</i>             |
| <b>Potsdam, Germany</b><br><i>IODP Working Group on “Limits and Evolution on Earth and Beyond”</i>                 | <b>Participant</b><br><i>2009</i>                |
| <b>Session on ‘Hot Earths: formation, detection, and structure’ at AAS 210th Meeting</b><br><i>Honolulu, USA</i>   | <b>Organizer</b><br><i>May 2007</i>              |
| <b>NASA-JPL Terrestrial Planet Finder Mission</b>  | <b>Science Working Group</b><br><i>2002–2006</i> |
| <b>ISSI Workshop: “Geology and Habitability of Terrestrial Planets”</b><br><i>Bern, Switzerland</i>                | <b>SOC</b><br><i>September 2005</i>              |
| <b>2nd Terrestrial Planet Finder /Darwin Meeting</b><br><i>San Diego, USA</i>                                      | <b>SOC</b><br><i>July 2004</i>                   |
| <b>Bioastronomy Meeting</b><br><i>Reykjavik, Iceland</i>   | <b>SOC</b><br><i>July 2004</i>                   |

## Supervision and Mentoring

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### Postdocs:

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| <b>Knicole Colón, Postdoctoral Researcher in Astronomy</b><br><i>Current position: Staff Scientist, NASA Goddard Space Flight Center</i> | <b>Supervisor</b><br><i>2012–2013</i> |
| <b>Joost van Summeren, Postdoctoral Researcher in Geology &amp; Geophysics</b><br><i>Current position: KWR Research Institute</i>        | <b>Supervisor</b><br><i>2011–2012</i> |
| <b>Eric Hilton, Postdoctoral Researcher in Astronomy</b><br><i>Current position: Universe Sandbox</i>                                    | <b>Supervisor</b><br><i>2011–2012</i> |
| <b>Antje Rusch. Postdoctoral Researcher in Geomicrobiology</b><br><i>Current position: Fauna Marin GmbH</i>                              | <b>Supervisor</b><br><i>2006–2008</i> |
| <b>Evgenya Shkolnik, NASA Postdoctoral Research Fellow</b><br><i>Current position: Professor, Arizona State University</i>               | <b>Supervisor</b><br><i>2005–2006</i> |

**Ketil Sorenson, Postdoctoral Researcher in Geomicrobiology**  
*Current position: Technical University of Denmark*

**Supervisor**  
2004–2006

### Doctoral Students:

**Lukas Gehrig, Institute for Astrophysics, University of Vienna**

*Dissertation: "Modeling the Interaction of Young Low-Mass Stars with Their Disks"*

**Co-Advisor**  
2021–present

**Ryan Dungee, Institute for Astronomy Doctoral Student**

*Dissertation: "Understanding the evolution of M Dwarf spin-down"*

*Current Position: Dunlap Postdoctoral Fellow, Dunlap Institute, University of Toronto*

**Co-Advisor/Supervisor**  
2019–2022

**Andrew Mann, Institute for Astronomy Doctoral Student**

*Dissertation: "Planets around cool stars: spectroscopic/photometric study of M dwarfs"*

*Current Position: Assistant Professor, University of North Carolina*

**Advisor/Supervisor**  
2009–2013

**Nicholas Moskovitz, Institute for Astronomy Doctoral Student**

*Dissertation: "Spectroscopic and theoretical constraints on planetesimal differentiation"*

*Current Position: Staff Scientist, Lowell Observatory*

**Advisor/Supervisor**  
2005–2009

**Angelos Hannides, Dept. of Oceanography Doctoral Student**

*Dissertation: "Organic matter cycling and nutrient dynamics in marine sediments"*

*Current Position: Assistant Professor, Coastal Carolina University*

**Co-Advisor/Supervisor**  
2002–2008

### Doctoral Dissertation Committees:

**Keng-Hsien (Earth & Planetary Sciences)**

*"Deep volatile cycle in planetary interiors"*

**Member**  
2021–present

**Jingwen Zhang (Institute for Astronomy)**

*"Orbital Dynamics in Close Binaries and Fourier Transform Spectroscopy for Direct Imaging"*

**Member**  
2021–2022

**Nicholas Saunders (Institute for Astronomy)**

*"Tracing Hot Jupiter Evolution with TESS and Gaia"*

**Member**  
2021–2022

**Casey Brinkman (Institute for Astronomy)**

*"Diversity of rocky planet compositions and host star abundances"*

**Member**  
2019–2022

**Ashley Chontos (Institute for Astronomy)**

*"Exoplanets orbiting asteroseismic stars: benchmark systems with TESS"*

**Member**  
2019–2021

**Travis Berger (Institute for Astronomy)**

*"Precise demographics of Kepler exoplanets in the Gaia era"*

**University Representative**  
2018–2021

**Samuel Grunblatt (Institute for Astronomy)**

*"Giant planets transiting giant stars"*

**University Representative**  
2016–2019

**Megan Ansdell (Institute for Astronomy)**

*"Protoplanetary disk demographics with ALMA"*

**University Representative**  
2014–2017

**Brendan Bowler (Institute for Astronomy)**

*"A high-contrast direct imaging search for gas-giant planets around low-mass stars"*

**University Representative**  
2010–2013

**Dagny Looper (Institute for Astronomy)**

*"TW Hydrae Association: new nearby accreting stars and first estimate of the IMF"*

**University Representative**  
2008–2011

## Masters Students:

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| <b>Andrew Hoffman (Institute for Astronomy)</b><br><i>M.S. Project: "Multi-wavelength Photometry of Occulting Dust around Taurus Stars"</i>  | <b>Advisor/Supervisor</b><br>2022–Present |
| <b>Alexa Anderson (Institute for Astronomy)</b><br><i>M.S. Project: "The Dynamic Inner Disk of EP Chamaeleontis"</i>   | <b>Advisor/Supervisor</b><br>2021–2022    |
| <b>Aleezah Ali (Institute for Astronomy)</b><br><i>M.S. Project: "Binarity of Kepler M Dwarf Stars and Their Planets"</i>  | <b>Advisor/Supervisor</b><br>2021–2022    |
| <b>Leander Schlarman (University of Vienna)</b><br><i>M.S. Project: "Modeling Venus-like atmospheres in chemical equilibrium"</i>  | <b>Co-Advisor</b><br>2021–2022            |
| <b>Carina Heinrichsberger (University of Vienna)</b><br><i>M.S. Project: "Why is Venus so Cool"</i>  | <b>Co-Advisor</b><br>2021–2022            |
| <b>Suchitra Narayanan (Institute for Astronomy)</b><br><i>M.S. Project: "SURPH: A Relative Photometry Pipeline for LCO"</i>  | <b>Advisor/Supervisor</b><br>2020–2021    |
| <b>Rena Lee (Department of Earth Sciences)</b><br><i>M.S. Thesis: "Multiplicity in the Beta Pictoris Moving Group"</i>   | <b>Advisor/Supervisor</b><br>2020–2022    |
| <b>Larisa Nofi (Institute for Astronomy)</b><br><i>M.S. project: "Spectrothermometry of K dwarf stars"</i><br><i>Current position: Lockheed-Martin Aerospace</i>   | <b>Advisor/Supervisor</b><br>2015–2016    |
| <b>Samuel Grunblatt (Institute for Astronomy)</b><br><i>M.S. project: "Giant planets around giant stars"</i><br><i>Current position: Kalbfleisch Postdoctoral Fellow, American Museum of Natural History</i> | <b>Advisor/Supervisor</b><br>2015–2016    |
| <b>Megan Ansdell (Institute for Astronomy)</b><br><i>M.S. project: "The near-ultraviolet luminosity function of M dwarf stars"</i><br><i>Current position: Program Scientist, NASA Headquarters</i>          | <b>Advisor/Supervisor</b><br>2013–2014    |
| <b>Jillian Ward (Department of Oceanography)</b><br><i>M.S. thesis: "Diversity and Biogeography of the Unique, Tropical Phylum Placozoa"</i><br><i>Current position: biotechnology industry</i>              | <b>Advisor/Supervisor</b><br>2005–2008    |

## Bachelors Students:

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|---|--------------------------------|
| <b>Lynzee Hoegger (Department of Physics &amp; Astronomy)</b><br><i>B.A. Senior Project: "LCO Observations of a T Tauri Dipper Star"</i>  | <b>Advisor</b><br>2021–2022    |
| <b>John Bredall (Department of Physics &amp; Astronomy)</b><br><i>B.S. Honors Thesis: "An ASAS-SN Survey of Variable Young Stellar Objects"</i>                                   | <b>Co-Advisor</b><br>2019–2020 |
| <b>Oana Vesa (Albion College)</b><br><i>NSF Research Experience for Undergraduates at the Institute for Astronomy</i>   | <b>Co-Advisor</b><br>2017      |
| <b>Emily Chang (Global Environmental Sciences, Department of Oceanography)</b><br><i>B.S. Thesis: "Identification &amp; Photometry of Candidate Transiting Exoplanet Signals"</i> | <b>Advisor</b><br>2011–2012    |
| <b>Jennifer Beyer (Department of Geology &amp; Geophysics)</b><br><i>NASA Space Grant Undergraduate Fellow</i>  | <b>Advisor</b><br>2010–2011    |

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| <b>Melissa Ilardo (Princeton University)</b><br><i>Visiting Summer Student</i>  | <b>Advisor</b><br>2007–2008    |
| <b>Nelson Lazago (Department of Biology)</b><br><i>NASA Space Grant Undergraduate Fellow</i>  | <b>Advisor</b><br>2007–2008    |
| <b>Daniel Rogers (University of Massachusetts at Amherst)</b><br><i>Visiting Student</i>  | <b>Advisor</b><br>2006–2007    |
| <b>Whitney Hassett (Global Environmental Sciences, Dept. of Oceanography)</b><br><i>Student assistant</i>   | <b>Supervisor</b><br>2006–2007 |
| <b>Sean Otaga (Departments of Civil Engineering and Oceanography)</b><br><i>Student assistant</i>   | <b>Supervisor</b><br>2006–2007 |
| <b>Aliz Axmann (Department of Mathematics)</b><br><i>B.S. thesis: "Dynamics of Motility in Placazoa"</i>  | <b>Advisor</b><br>2004–2005    |
| <b>Maxime Grand (Global Environmental Sciences, Dept. of Oceanography)</b><br><i>B.S. thesis: "Precipitation, Plant Communities and Methane Fluxes in Ka'au Crater"</i> | <b>Advisor</b><br>2002–2003    |

## Awards

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|---|--|
| <b>Fulbright Research Fellowship</b><br><i>Institute for Astrophysics, University of Vienna</i> | <b>U.S.-Austrian Fulbright Commission</b><br><i>September 2016 – February 2017</i> |
| <b>Graduate Student Fellowship</b><br><i>Massachusetts Institute of Technology</i>              | <b>National Science Foundation</b><br><i>1989-1992</i>                             |
| <b>Dr. Robert H. Goddard Memorial Scholarship</b><br><i>California Institute of Technology</i>  | <b>National Space Club</b><br><i>1988</i>  |