

## Prof. Steven E. Boggs

### *Curriculum vitae*

University of California, San Diego  
Astronomy & Astrophysics  
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### Short Biography

Steven Boggs is a professor of Astronomy & Astrophysics at the University of California, San Diego. His research is focused on high-energy astrophysics, in particular the development of novel gamma-ray and X-ray instruments with an emphasis on high-resolution spectroscopy. He led the successful NCT and COSI suborbital balloon payloads on six flight campaigns from the US, Australia, Antarctica, and New Zealand. He previously served as an instrument Co-I/institutional PI on the NuSTAR SMEX mission. He currently serves as Deputy PI of the Compton Spectrometer and Imager (COSI) NASA SMEX mission. Prof. Boggs is a fellow of the American Physical Society and the American Association for the Advancement of Science.

### Education

1998 Ph.D., Physics, University of California, Berkeley  
1994 M.A., Physics, University of California, Berkeley  
1991 B.S., Physics, University of Illinois, Urbana-Champaign

### Career Summary

2023- Professor of Astronomy & Astrophysics, University of California, San Diego  
2017-2023 Dean, Division of Physical Sciences, University of California, San Diego  
2017-2023 Professor of Physics, University of California, San Diego  
2017- Faculty Research Scientist, Space Sciences Laboratory, UC Berkeley  
2013-2016 Chair, Department of Physics, University of California, Berkeley  
2001-2016 Assistant/Associate/Full Professor of Physics, University of California, Berkeley  
2001-2013 Associate Director, Space Sciences Laboratory, University of California, Berkeley  
2007-2013 Vice Chair for Graduate Affairs, Department of Physics, University of California, Berkeley  
2001-2006 Associate Director, California Space Institute, University of California, Berkeley  
1998-2000 Millikan Postdoctoral Scholar of Physics, California Institute of Technology  
1993-1998 Research Assistant, Space Sciences Laboratory, University of California, Berkeley  
1991-1992 Graduate Student Instructor, Department of Physics, University of California, Berkeley

### Fellowships, Honors, Awards

2020 Fellow, American Association for the Advancement of Science, Physics and Astronomy Sections  
2017-2023 Chancellor's Associates Endowed Chair in Physics  
2015 NASA Group Achievement Award, for the NuSTAR Project Team  
2014 APS Fellow (Division of Astrophysics)  
2007-2008 UC Berkeley Presidential Chair Fellow  
2002 Hellman Family Faculty Award  
1998-2000 Millikan Postdoctoral Research Fellow, California Institute of Technology  
1994-1997 NASA Graduate Student Research Fellowship  
1991 Graduated summa cum laude/Bronze Tablet, University of Illinois  
1991 Ernst M. Lyman Award, Outstanding Undergraduate in Physics

### Principal Investigator

2014-2022 NASA ROSES Astronomy & Physics Research & Analysis Program  
*COSI-APRA: The Compton Spectrometer and Imager (COSI): A Balloon-Borne Soft Gamma-Ray Spectrometer, Polarimeter, & Imager*  
2021-2024 NASA ROSES Astronomy & Physics Research & Analysis Program  
*Radiation Damage Effects and Charge Trapping Correction Techniques in the COSI Germanium Detectors*

### Deputy Principal Investigator

2020-2027 NASA SMEX Program

*The Compton Spectrometer and Imager (COSI) Small Explorer Mission*

**Co-Investigator**

2007-present NASA SMEX Program  
The Nuclear Spectroscopic Telescope Array (NuSTAR)  
2017-present NASA ROSES Astronomy & Physics Research & Analysis Program  
*The GAPS Experiment: A Search for Dark Matter Using Low Energy Antiprotons and Antideuterons*

**Professional Committees & Previous Service**

APS Division of Astrophysics Executive Committee, NASA Senior Review Committee, NASA Astronomy & Physics Working Group, NASA Balloon Working Group, INTEGRAL Users Group member, NASA & NSF peer review panels, reviewer for numerous scientific and technical journals

**Professional Societies**

American Physical Society, American Astronomical Society, American Association for the Advancement of Science

**Mentoring, Postdoctoral Scholars**

Wayne Coburn, 2001-2005 (currently working in industry)  
Emrah Kalemci, 2003-2005 (currently Professor, Sabanci University)  
Cornelia Wunderer, 2004-2007 (currently Scientist, DESY)  
Andreas Zoglauer, 2006-2010 (currently Assistant Researcher, Space Sciences Laboratory, UC Berkeley)  
Arash Bodaghee, co-advisor 2009-2013 (currently Assistant Professor, Georgia College)  
Nicolas Barriere, 2009-2012 (currently working in industry)  
Philip von Doetinchem, 2000-2013 (currently Associate Professor, U. of Hawaii)  
Roman Krivonos, co-advisor 2012-2015 (currently Scientist, Space Research Institute, Moscow)  
Jeng-Lun Chiu, 2014-2017 (currently Scientist, National Tsing Hua University)  
Maica Clavel, co-advisor 2015-2017 (currently CNRS Research Scientist, IPAG, Grenoble)  
Alex Lowell, 2017-2020 (currently Engineer, Space Sciences Laboratory, UC Berkeley)  
Jarred Roberts, 2017-2022 (currently Assistant Project Scientist, UC San Diego)  
Thomas Siebert, 2019-2021 (currently Habilitation, University of Wuerzburg)  
Sean Pike, 2022-present

**Mentoring, Graduate Student Researchers**

Jason Bowen, 2004-2009 (currently Instructor, Antelope Valley College)  
Mark Bandstra, 2004-2010 (currently Scientific Engineering Associate, Lawrence Berkeley Laboratory)  
Eric Bellm, 2006-2011 (currently Project Scientist, California Institute of Technology)  
Josh von Korff, co-advisor 2007-2010 (currently Assistant Professor, Georgia State University)  
Jeng-Lun Chiu, co-advisor 2004-2010 (currently Postdoctoral Scholar, UC Berkeley)  
Jau-Shian Ling, co-advisor 2005-2010 (currently working in industry)  
Michelle Galloway, co-advisor 2008-2014 (currently Postdoctoral Scholar, University of Zurich)  
Alex Lowell, 2010-2017 (currently Engineer, Space Sciences Laboratory, UC Berkeley)  
Nicole Duncan, 2012-2017 (currently Engineer, Ball Aerospace)  
Carolyn Kierans, 2012-2018 (currently Research Astrophysicist, NASA Goddard)  
Clio Sleator, 2013-2019 (currently Astrophysicist, Naval Research Laboratory)  
Sophia Haight, 2023-present  
Anaya Valluvan, 2023-present

**Mentoring, Undergraduate Researchers**

Mayra Lopez-Thibodeaux, summer 2012 (instructional assistant, Skyline College)  
Nathan Saffold, summer 2013 (currently graduate student at Columbia University)  
Ares Hernandez, 2014-2016 (currently graduate school at Stanford)  
Cory Gerrity, 2014-2016 (currently graduate school at U. of Hawaii)  
Dawnia Brody, summer 2014 (research intern, UCSF)  
Gabriel Brewster, 2023-present