

Contact

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www.aaas.org/program/govrelations (Company)

Top Skills

Astrophysics
Physics
Science

Publications

Setting the Stage for Circumstellar Interaction in Core-Collapse Supernovae II: Wave-driven Mass Loss in Supernova Progenitors

The stability of massive main-sequence stars as a function of metallicity

My Adviser's Best Advice

The observational signatures of convectively excited gravity modes in main-sequence stars

Wave-driven mass loss in the last year of stellar evolution: setting the stage for the most luminous core-collapse supernovae

Josh Shiode

Chief of Staff, Office of Science at U.S. Department of Energy (DOE)
Washington, District of Columbia, United States

Summary

Government relations and communications professional with technical background and decade of experience focused on federal research and development programs. Demonstrated success leading diverse coalitions and building bipartisan support for science, space, and energy programs. Committed to ensuring all Americans have access to STEM opportunities and see the benefits of science and technology in their lives.

Experience

U.S. Department of Energy (DOE)
Chief Of Staff, Office of Science
August 2022 - Present (1 year 1 month)
Washington DC-Baltimore Area

Pacific Northwest National Laboratory - PNNL
Federal Affairs Director
June 2018 - July 2022 (4 years 2 months)
Washington, District Of Columbia

- Maintain strong relationships with Washington congressional delegation, key committee staff, and DOE stakeholders to establish PNNL as a valued resource on science, technology, energy, and national security issues
- Develop and implement engagement strategies that strengthen PNNL's thought leadership in key mission areas, including climate science, clean energy and grid research, and national security
- Develop opportunities for and support congressional testimony, briefings, and strategic engagements
- Co-Chair the National Laboratory Federal Relations group, leading complex-wide engagements with university, industry, and congressional stakeholders that broaden the impact of National Lab R&D

Semiconductor Industry Association
Director Of Government Affairs
August 2017 - June 2018 (11 months)

Washington D.C. Metro Area

- Developed and implemented federal government affairs advocacy strategies around organization and industry priorities in the areas of research policy, high-skilled immigration, and anti-counterfeiting initiatives
- Represented organization and industry with members of Congress and their staff, Executive branch departments, member companies, and other industry associations
- Developed and maintained relationships with key legislators and their staff, committees, administration officials, member companies, and other stakeholders
- Developed and maintained relationships with member company staff to drive consensus and implement effective advocacy strategies

AAAS

Senior Government Relations Officer

March 2015 - August 2017 (2 years 6 months)

Washington D.C. Metro Area

- Develop and implement policy engagement strategy in collaboration with AAAS Office of Government Relations team
- Engage with key staff in executive and legislative branches of government on policy issues that impact scientists and engineers
- Communicate complex scientific and technical information to policymakers and policy issues to AAAS members
- Manage Golden Goose Award project, including nomination development, fundraising, advertising, media relations, committee management, oversight of annual documentary film production, and engaging with key policymakers and staff
- Draft and deliver official communications on behalf of AAAS leadership
- Develop and maintain strong collaborative relationships with members of the scientific, higher education, and business communities
- Connect scientists and engineers with policymakers to provide timely, relevant scientific and technical input on legislation and policy implementation decisions

Golden Goose Award

Steering Committee Co-Chair

March 2015 - August 2017 (2 years 6 months)

Washington D.C. Metro Area

- Oversee awardee selection, story development, documentary film production, and annual Award Ceremony implementation

- Maintain strong working relationships with awardees and stakeholders in higher education and science communities
- Lead fundraising strategy and implementation
- Lead communications and outreach strategy responsible for increasing web traffic over 200% year-over-year
- Manage regular meetings of multi-stakeholder Steering Committee and Selection Committee

American Astronomical Society

John Bahcall Public Policy Fellow

August 2013 - February 2015 (1 year 7 months)

Washington, DC

- Monitor legislation with policy implications for the astronomical sciences
- Communicate with astronomical community about policy issues that may affect them via multiple media channels
- Edit and produce content related to policy for science and related careers for the AAS Policy Blog
- Design and deliver policy seminars of varying length that effectively communicate policy issues to scientific audiences
- Coordinate and support AAS member visits with their representatives in Congress and policymakers in the Executive branch through the Communicating with Washington and Congressional Visits Day programs
- Provide background information and materials to AAS members visiting policymakers and staff
- Generate original promotional materials to support member visits and policy events
- Design and coordinate Congressional briefings for staffers from both the Legislative and Executive branches
- Coordinate policy activities among the several AAS divisions and the Committee on Astronomy & Public Policy
- Represent the AAS on advocacy coalitions, including the Task Force for American Innovation, the Energy Sciences Coalition, and the Coalition for National Science Funding
- Write chapter for American Association for the Advancement of Science (AAAS) Report: Research & Development in FY 2015 on federal budgets for astronomical sciences

UC Berkeley

6 years 1 month

NASA Earth & Space Sciences Fellow

August 2010 - August 2013 (3 years 1 month)

Berkeley, CA

Stars born with more than about ten times the mass of the sun will explode as supernovae at the end of their lives. In the process, they will disperse the heavy elements, like carbon and oxygen, necessary for future generations of stars, planets and life. To understand our place in the universe, we must understand the processes taking place in these stars' interiors. With my advisor Prof. Eliot Quataert and collaborators, I am exploring the causes of hitherto unexplained eruptions observed for some fraction of these massive stars. Through this work, I have developed specific expertise in numerical modeling of stellar interiors (primarily with Python and modern Fortran) and the excitation and damping of stellar oscillations.

Graduate Student Researcher

August 2007 - August 2013 (6 years 1 month)

Berkeley, CA

During my time at Berkeley, I have engaged in data-mining, observations and theoretical astronomy research. Before beginning the work with Prof. Quataert described above, I worked with Prof. Josh Bloom mining a large database of observations spanning most of the sky and several years in search of a rare category of interacting binary star system known as an AM CVn star. In this research, I learned SQL and employed Python-based statistical analyses.

Graduate Student Instructor

August 2007 - December 2010 (3 years 5 months)

As a graduate student instructor for one of the largest courses at UC Berkeley, Introductory Astronomy, I led multiple discussion sections of 30 students per session for one hour per week. I employed a group-work-focused curriculum, including original worksheets, activities, and active demonstrations. As the head graduate student instructor for one semester, I coordinated a team of thirteen graduate and undergraduate student instructors in test and quiz preparation, grading, and curriculum design. I also delivered five guest lectures for the approximately 700 student course on a range of topics in astronomy, incorporating interactive lecture techniques.

As the instructor for a course in pedagogical techniques in the physical sciences, I led a group of first-time graduate and undergraduate student instructors through the theory and practice of group-work and inquiry-based science instruction.

Boston University

Undergraduate Research Assistant

February 2004 - May 2007 (3 years 4 months)

Working with my advisor, Prof. Dan Clemens, I developed and implemented a novel imaging survey of a small patch of our Milky Way galaxy in search of relatively rare phenomena known as Planetary Nebulae. We isolated a uniquely identifying characteristic of this category of phenomena and employed narrowband imaging with the 1.8-meter Perkins Telescope to select new objects. I then developed original image processing and analysis software using Interactive Data Language, and communicated the results of the survey in a written and orally-defended senior thesis for distinction and at multiple professional conferences.

Education

University of California, Berkeley

Doctor of Philosophy (Ph.D.), Astrophysics · (2007 - 2013)

University of California, Berkeley

Master's degree, Astrophysics · (2007 - 2009)

Boston University

Bachelor of Arts (B.A.), Astronomy and Physics · (2003 - 2007)