

Michael R. García
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Education and Professional Affiliation

MIT

B.S. Earth and Planetary Sciences, 1978

Harvard University

M.S., Ph.D. Astronomy, 1987

Member: American Astronomical Society(AAS),
Engineers(SPIE);

Society of Photo-Optical Instrumentation
Citizenship:US

Roles

Leading Scientist on National and International Space Observing Technology & Missions

Smithsonian Astrophysical Observatory (SAO) Science Lead for the International X-Ray Observatory, \$3 billion proposal for joint NASA/ESA flagship mission

Principal Investigator for the Extreme Physics Explorer, \$780 million NASA concept Mission Planning Scientist, Chandra X-Ray Observatory, \$2.5 billion NASA mission

Einstein Observatory Project Scientist

Supervised 20 scientists/engineers/technicians and \$2 million/year budget

Chandra High Resolution Camera Mission Scientist

Designed, carried out, and published experiments on this micro-channel plate imager

Principal Investigator on over \$1.7 million in research grants from NASA, SI, & NSF

Wrote, acquired, managed, & completed grant-funded research in astrophysics

Project and Systems Architect

Science Requirements (Level 0, 1, 2) and documents for new missions

Pseudo-code and prototyping for operations software

Leading Advocate for cornerstone missions at Smithsonian Astrophysical Observatory

Pitched projects to lead universities and NASA headquarters

Founder and Lead Scientist International Student Astrophysics Exchange

Southampton University/SAO Master in Astrophysics with a Year Abroad

Positions

Astrophysicist, Smithsonian Astrophysical Observatory (SAO), 1987-present

Supporting Skills

Modeling, analysis, and simulation of image, timing, and spectroscopic datasets; statistical tests

Experiment design, execution, completion, and documentation

Space mission design and optimization, studies of mission trade space

Proposal Preparation, including science, technologies, and budgets to NASA and Smithsonian X-ray detector and optics design and development

Strong presentation skills: over 400 professional publications, numerous talks/presentations, press releases, TV shows, Smithsonian Museum Traveling Exhibits.

Mentoring: 6 post-docs, 6 Masters Astrophysics students

Leadership: Chair SAO Scientists Council, chair Science Organizing Committees for science conferences, publications editor, scientific publications referee, NASA/NSF/SI proposal reviewer

Fluent with Fortran, UNIX, Windows, S-Plus/R, Knowledge of IDL, MATLAB