

Curriculum Vitae: *Saeqa Dil Vrtilek*

EDUCATION:

1982-1985 Ph.D., M.Phil Astronomy, Columbia University
1977-1978 M.A. Physics, Brandeis University
1970-1975 B.S. Physics, Massachusetts Institute of Technology

GENERAL FIELDS OF INTEREST:

Machine learning classification of X-ray binaries
ULX population studies
Outburst monitoring of Microquasars
Physics of accretion disks and jets
Multi-Channel studies of X-ray binaries
Science education/public outreach

CURRENT POSITION:

2021- Research Associate, HEAD, SAO

PREVIOUS POSITIONS:

1988-2020 Astrophysicist, High Energy Astrophysics Division, SAO
2005-2007 Director, NSF Research Experiences for Undergraduates (REU) and Teachers (RET) programs at SAO
1988- Associate, Harvard College Observatory
1995-1996 Visiting Associate Professor of Astronomy, Harvard University
1993-1995 Visiting Associate Professor of Astronomy, University of Maryland
Spring 1990 MPE Fellow, Max-Planck Institute for Extraterrestrial Physics.
1986-1988 National Academy of Sciences/National Research Council Resident Research Associate, Laboratory for High Energy Astrophysics, NASA/GSFC
Fall 1983 Visiting Scientist, Department of Astronomy, Oxford University.
1983 Summer Faculty, Department of Astronomy, Columbia University.
1979-1982 Programmer, R&G, SAO
1979 Sponsored Research Staff, Center for Space Research, MIT
1975-1977 Research Assistant, Earth and Planetary Physics, Harvard University

PROFESSIONAL SOCIETIES:

1994- **American Association for the Advancement of Science**
1991- **International Astronomical Union**
1991- **American Association of University Women**
1984- **American Physical Society**
1982- **American Astronomical Society**
1986-1990 New York Academy of Sciences
2001-2006 Astronomical Society of the Pacific
1984-1991 Royal Astronomical Society

CITIZENSHIP:

US

BIBLIOGRAPHY

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HONORS/AWARDS

2014	AAS Shapley Lecturer, Newfoundland
2012	AAS Shapley Lecturer, Indiana
2009	Elected Fellow, American Association for the Advancement of Science.
2005-2006	AAS Shapley Lecturer.
1993-1996	Visiting Professorship for Women, National Science Foundation (\$169,000.00).
1991-1992	Marie Curie Fellow, American Association of University Women (\$20,000.00).
1988-1989	Science Scholar, Bunting Institute, Radcliffe College (\$20,000.00)
1983-1984	Amelia Earhart Fellow, Zonta International (\$5,000.00)
1984-1985	Amelia Earhart Fellow, Zonta International (\$5,000.00)

MEMBERSHIP ON ADVISORY COMMITTEES

External:

2023	Chair, IXPE Cycle 1 Review Panel, NASA, Rockville, MD.
2022	Chair, APS Site visit to Dept. of Physics, Carnegie Mellon University, Pittsburgh
2020-2022	Member, AAAS Standing Committee on Fellows
2016	Chair, APS/CSWP Site visits to Waterloo University and the Institute for Quantum Computing, Waterloo, Canada.
2015-2021	Member, Organizing Committee of IAU Commission B.3 Astroinformatics and Astrostatistics
2015-2019	Member, AAAS Ad hoc Committee on Fellows
2010-2022	Secretary-Treasurer, Astronomy Section, AAAS.
2009-2016	Member, Committee on the Status of Women in Physics, American

Physical Society

2015	Chair, APS/CSWP Site visit to Drexel University
2013	Chair, APS/CSWP Site visit to North Carolina State University
2013	Panel Chair, Hubble Space Telescope Cycle 21, member of TAC
2012	Member, APS/CSWP Site visit to Argonne National Laboratory: Photon Science and Physical Science & Engineering Directorates.
2011	Member, APS/CSWP Site visit to UCSB
2011-2013	Member, Committee on Sections, AAAS
2011-2012	Chair, APS Maria Goeppert Mayer Fellowship
2010	Member, APS/CSWP Site visit to LANL, Physics Division.
2010	Guest editor of APS/CSWP Newsletter, article "Quality & Quantity: Participation of Women and Minorities in Science.
2006-2009	Section Secretary & Treasurer of AAAS Section D (Astronomy).
2004	Chandra Cycle 6 Peer Review, Panel Chair

2003 RXTE Cycle 9 Peer Review, Panel Chair
 2001 NASA Headquarters ADP/LTSA Review, Panel Chair.
 2001-2005 Astronomy Section Secretary & Treasurer AAAS.
 1998 Member of NASA Senior Review Committee
 1997-2001 Appointed Section Secretary by the Steering Committee of AAAS Section D (Astronomy).
 1995-1996 Nominating Committee for the High Energy Astrophysics Division of the AAS.
 1995-1998 AAS representative to the AAAS (American Association for the Advancement of Science) (Selected by the Council of the AAS).
 1995-1997 Member, AAUW Educational Foundation International Fellowships Awards Panel (2-year term).

Internal:

2009-2013 Member, Center for Astrophysics Telescope Allocation Committee
 2005 Lead for Compact Objects section of HEAD input for CfA Science Strategic Planning Committee.
 2004-2005 Chair, CfA Pre-doctoral Oversight Committee
 2003-2004 Chair, CfA Fellowship Selection Committee
 2003-2004 Chair, CfA Pre-doctoral Selection Committee
 2002-2003 Member, CfA post and pre-doctoral selection committees.
 2001 Assignment of proposals for Binary Stars panel for the CXO Cycle 3 peer review. Was awarded a 'Certificate of Commendation' for this effort by Roger Brissendon.
 1994 Astronomy Advisory Committee, University of Maryland. (Members: M. Leventhal (Dept. Chair), R. Bell, S. Vogel, S. Vrtilik, J. Stone) the purpose of this committee was the design of a 10-year strategic plan for the Department as requested by the Dean of the College of Mathematics and Sciences to be incorporated into a 10-year plan for the College (10 departments).
 1993-1995 Astronomy Department Representative, UMD Outreach Program.
 1991-1993 Co-chair, CfA Colloquium Series.
 1990-1992 Coordinator, SAO Women's Program, CfA.

PEER REVIEW AND REFEREEING ACTIVITIES

Being Chair of a panel is listed as an advisory position (listed above). Being a member of a panel is listed under peer review.

2024 Member, AAUW International Fellowships Review Panel, remote.
 2023 Member, NuStar Cycle 9 Review Panel, NASA, Remote
 2021 Member, Hubble Space Telescope, Cycle 29 Peer Review.
 2020 Member, Hubble Space Telescope, Cycle 28 Peer Review.
 2020 Member, NuStar, Cycle 6 Peer Review, Baltimore, MD.
 2019 Member, Chandra Cycle 21 peer review, Boston, MA
 2018 Member, HST Cycle 26 Stars and Stellar Populations Panel
 2018 Member, NuStar Cycle 4 Review Panel, Burbank, CA.
 2006 NASA Swift Cycle 3 Peer Review
 2005 Suzaku Cycle 1 Peer Review
 2004 GALEX Cycle 1 Peer Review

2003 NASA LTSA/ADP review; Interstellar Medium and Planetary Nebulae panel
2001 Co-Editor, proceedings of the symposium 'Sharp Focus', PASP conference series.
2000 Astrophysics Theory Program Review
1998 Peer review AXAF (Chandra) Cycle 1.
1998 Peer review HST Cycle 8
1998 Panel member, NASA Senior Review
1997 Reviewer for NASA RXTE proposals.
1995,1996 Reviewer for NASA ASCA proposals (AO4,AO5).
1995 Reviewer for NASA New Mission Concepts Proposals.
1994 Reviewer for NSF proposals.
1994 Reviewer for AAUW American Fellowship proposals.
1993,1994 Reviewer for NASA ASCA proposals (AO1, AO2, AO3).
1992 Reviewer for NASA Long-Term Space Astrophysics proposals.
1992 Reviewer for NASA Astrophysics Data Program proposals.
1992 Reviewer for NASA Long-Term Space Astrophysics proposals.
1988- Referee for papers submitted to: *Astrophysical Journal (Letters)*, *Astrophysical Journal*, *Astrophysical Journal (Supplement)*, *Nature*, *Astronomical Society of the Pacific*, *Astronomical Journal*, *Monthly Notices of the Royal Astronomical Society*, *Astronomy & Astrophysics*