

Francis P. Wilkin
vita brevis

Address

Department of Physics and Astronomy
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Positions held

Lecturer and Observatory Manager Department of Physics and Astronomy Union College, Schenectady, NY	9/2004-date
Postdoctoral Fellow Instituto de Astronomía and CRyA, UNAM, Morelia, Mexico	2/2002-5/2004
Henri Poincaré Postdoc Observatoire de la Côte d'Azur, France	2/2001-2/2002
Jet Propulsion Laboratory Postdoc IPAC, California Institute of Technology	1/1999-1/2001
National Research Council Postdoc NASA Ames Research Center, Moffett Field, CA	1/1998-1/1998

Education

Ph.D. 1997 Astronomy Research Advisor: Dr. Steven Stahler Dissertation Chair: Prof. Christopher McKee	University of California, Berkeley
M.A. 1991 Astronomy	University of California, Berkeley
B.S. 1989 Astronomy	University of Massachusetts, Amherst
B.S. 1989 Physics	University of Massachusetts, Amherst
A.A. 1986 Math/Science	Mattatuck Community College (MCC)

Research Interests

Star Formation Theory
Protostellar Jets, Outflows and Disks
Radio and Optical Interferometry
Hydrodynamics, Magnetohydrodynamics
Bow Shocks and Colliding Stellar Winds

Publications

13 refereed publications
1071 citations in the SAO/NASA Astrophysics Data System
296 normalized citations (# citations/# authors)
(http://adsabs.harvard.edu/abstract_service.html)

Teaching Experience

Lecturer in Physics and Astronomy Fall 2004-date
Courses taught:

Introduction to Astronomy with lab (6 terms)
Introduction to Astrophysics (4 terms)
Matter in Motion (Physics I with Calculus, lab)
11 sections/ 8 terms
Introduction to Electromagnetics (Physics II with
Calculus, lab) 2 Terms
Solar System (Winter term 2007)
Stellar Structure and Evolution (2 terms)
Observational Astronomy (2 terms)
Relativity, Black Holes and Quasars (Spring 2008)

B.A. Theses directed:

Charles McCaleb 2006 (co-advised with J. Marr)
Joshua Smith 2007 (co-advised with J. Marr)
Michael Gillin 2008
Laura Hutchinson 2008 (Dance thesis)
Paul Amy 2008
David Barker 2009

5 Semesters as Graduate Student Instructor at UC Berkeley
Head Graduate Student Instructor, Intro Astronomy 1997
Intro to Astronomy and Astrophysics I (Solar System,
Astronomy majors, with calculus), Fall 1996
Introductory Astronomy (non-science majors), 1995, 1989
General Astronomy (math and science majors), Spring 1990
Chemistry Tutor, 9/85-5/86, MCC

Awards and Honors

NSF International Research Fellowship 6/2002-5/2004
Henri Poincaré Fellowship, Observatoire de la Côte d'Azur, 2001
National Research Council Associateship, NASA/Ames, 1998
Outstanding Graduate Student Instructor Award, UC Berkeley, 1997
AAS Division for Dynamical Astronomy Student Stipend Award, 1997
Josephine de Kármán Fellowship 1996-1997
NASA Graduate Student Researchers Program Fellowship 1993-1996
Commonwealth Scholar, UMass, 1989
Summa cum laude (Astronomy degree), UMass, 1989

Cum laude (Physics degree), UMass, 1989
Departmental Honors, Five College Astronomy Department, 1989
Phi Beta Kappa and Phi Theta Kappa
Connecticut Scholastic Achievement Award, 1986-1989
Five College Astronomy Research Fellowship, Summer 1988
Visiting Research Assistant, National Radio Astronomy
Observatory, 1987
Summa cum laude, MCC, 1986
Who's Who in American Junior Colleges, 1986
Randy E. Bergin Mathematics Award, MCC, 1986
Faculty Award for Physical Science, MCC, 1986

Languages

French, Spanish: Fluent speaking, reading and writing

Grants

Co-Investigator on 4 research grants while in Mexico at the
Universidad Nacional Autonoma de Mexico

Public Service and Outreach

Vice President, Dudley Observatory 2010-date
Chair, Events Committee, Dudley Observatory 2009-date
Member, Board of Trustees, Dudley Observatory 2008-date

Have shown the stars, planets, and comets to many thousands
at star parties I directed at the Union College
Observatory, the Mattatuck Community Observatory, and the
Berkeley Astronomy Department rooftop observatory

Outreach Coordinator for Department of Physics & Astronomy
Organized the Union College Physical Constants Workshop,
2008 and 2009

Have presented astronomy talks at many international
conferences as well as on radio and television interviews

Have given planetarium shows at Union College and local
schools with a Starlab portable planetarium

Referee, the Astrophysical Journal, Revista Mexicana de
Astronomia y Astrofisica