

Education:

1988 – MA, Astronomy. Wesleyan University, Middletown CT. Thesis title: *H- α Photometry of Dwarf K and M Stars*.
1985 – BA, Astronomy. Western Connecticut State University, Danbury CT. Graduated *cum laude*.

Publications & Presentations:

Each year, I give numerous talks to the general public about topics of astronomical interest.

“The Arecibo Pisces-Perseus Supercluster Survey: I. Harvesting ALFALFA.” A.A. O’Donoghue, M.P. Haynes, R. Koopmann, M. Jones, R. Giovanelli, T.J. Balonek, D.W. Craig, G.L. Hallenbeck, G.L. Hoffman, D.A. Kornreich, L. Leisman, and J.R. Miller. *Astronomical Journal*, Vol. 157, No. 2 (2019)

“The Arecibo Legacy Fast ALFA Survey: The ALFALFA Extragalactic HI Source Catalog.” M.P. Haynes, R. Giovanelli, B.R. Kent, E.A.K. Adams, T.J. Balonek, D.W. Craig, D. Fertig, R. Finn, C. Giovanardi, G. Hallenbeck, et al. *Astrophysical Journal*. Vol. 861, No. 1. (2018)

“The Arecibo Legacy Fast ALFA Survey: The alpha.40 HI Source Catalog, its Characteristics and their Impact on the Derivation of the HI Mass Function”. Haynes, Giovanelli, et. al. *The Astronomical Journal*, 142:170 (28pp), 2011 November.

“Building an Observatory in the Park: Creating the Adirondack Public Observatory”, a talk presented at the Astronomical Society of New York (ASNY) Spring Meeting, St. Lawrence University, 30 April, 2005.

“A Catalog of Faint A, F, and G Stars at the South Galactic Pole”; P. Lu, J. Miller, D. Platt; *The Astrophysical Journal Supplement Series*, Volume 83, November 1992, pp 203-235.

“H- α Photometry of Late K and M Dwarf Stars: Chromospheric Activity”; W. Herbst, J. Miller, *The Astronomical Journal*, Volume 97, Number 3, March 1989, pp 891-899.

“Luminosity and Kinematics of Barium Stars”; J. Miller, P. Lu; *Bulletin of the American Astronomical Society*, Vol. 17, March 1985, p.553

Honors and Awards:

Instructional Minigrant, SLU Center for Teaching and Learning, 2003
Sigma Pi Sigma ($\Sigma\Pi\Sigma$), 2000
Associate member, American Astronomical Society, 1992
Associate member, Sigma Xi Society, 1988
Grant-In-Aid of Research, Sigma Xi Society, 1987
Graduated Cum Laude, Western Connecticut State University, 1985

Computer Support Experience:

Technical support and training for faculty, staff and students
Software trouble shooting, repairs, and upgrades
Software configuration, installation, and documentation
Hardware repairs and maintenance on Windows and Macintosh systems

Professional Service:

2004 – Present: Board of Directors, Adirondack Sky Center & Observatory (*previously known as The Adirondack Public Observatory*)

Professional History:

Summer 2008 – Present: St. Lawrence University

Physics Laboratory Coordinator

Teach Introduction to Astronomy (Phys 101) course, and lab sections for College Physics (Phys103/104) and University Physics (Phys 151/151); assist department faculty in their pedagogical pursuits; revise student instructions for introductory labs; supervise weekly set up and take-down of introductory lab equipment; create and revise department web pages, including online “manual” for lab set ups and classroom demonstrations; order equipment for introductory labs; perform minor repairs of defective lab equipment; repair hardware and software to preserve operational status of department computers (approximately 36 Windows and Macintosh computers) and printers, maintain order in stock rooms and lecture-demo room. Also, have become involved with the ALFALFA research project at the Arecibo Radio Observatory, and am now an ‘expert’ observer. This project is a survey of extragalactic neutral Hydrogen (HI).

1995 – Spring 2008: St. Lawrence University

Physics Lab Coordinator/IT Computer Specialist

During this time, I held a joint appointment between the Physics Department ($\frac{2}{3}$ time) and Information Technology ($\frac{1}{3}$ time). My duties in each department were as follows:

Physics:

Teach four lab sections each semester (typically two College Physics, two University Physics); assist department faculty in their pedagogical pursuits; revise student instructions for introductory labs; supervise weekly set up and take-down of introductory lab equipment; create and revise department web pages, including online “manual” for lab set ups; order equipment for introductory labs; perform minor repairs of defective lab equipment; repair hardware and software to preserve operational status of department computers (approximately 36 Windows and Macintosh computers) and printers, maintain order in stock rooms.

Information Technology:

Hardware and software repair and troubleshooting (Macintosh and Windows); configuration and installation of new computers; faculty, staff and student training; write documentation; research hardware and software options for University purchases. Co-chair of Information Technology web design committee (2005).

Fall 1997: St. Lawrence University

Instructor, Talented Juniors

Taught a course in the construction of Internet web pages in the University’s Talented Juniors program.

Summer 1995: St. Lawrence University

Instructor, HEOP

Taught Introduction to Astronomy in the University’s Higher Education Opportunity Program.

1994 – 1995: St. Lawrence University

Adjunct Instructor, Department of Mathematics

Taught one section of Introduction to Computer Programming using Pascal 6.0, Fall and Spring semester.

Software Consultant, Department of Instructional Technology

Duties include technical support for faculty, staff, and students; software and hardware configuration and repair; workshop instruction for campus community (Microsoft Word and Excel, WordPerfect, ToolBook, XyWrite III+ Lotus 1-2-3); contribution of articles to department’s bi-weekly newsletter.

Curriculum Vitae: **Jeffrey R. Miller**

1992 – 1994: St. Lawrence University

Visiting Instructor of Physics

Taught College Physics and Introduction to Astronomy classes (lecture and lab); also one lab section of University Physics. Assisted Physics faculty in the configuration and use of new office computer systems, and maintained computers used in student laboratories.

1990 – 1992: St. Lawrence University

Laboratory Instructor, Department of Physics

Conducted laboratory sessions for College Physics and Introduction to Astronomy courses. Presented Planetarium shows and guest-lectured in the Astronomy course.

Computer Graphics Technician, Office for Academic Computing

Operated, maintained and documented use of computer and graphics equipment acquired through a grant from the W.M. Keck Foundation. Developed and conducted workshops to train faculty, staff, and students in the use of campus computer facilities.

PC Repair Technician, Office for Academic Computing

Installed and repaired IBM and Macintosh personal computers.

1990 – 1992: North Country Community College

Adjunct Lecturer

Developed and taught the following courses: Introduction to Computer Information Systems; Astronomy I; Basic Concepts of Mathematics; Bowling I.

1988 – 1989: Western Connecticut State University

University Assistant, Center For Galactic Astronomy

Reduced and analyzed positional velocities of F-stars near the South Galactic Pole, using IRAF software and an AED 767 Image Processor.

Adjunct Lecturer, Department of Astronomy

Taught Introduction to Astronomy courses, including lecture and laboratory sessions.

Instructor, Department of Academic Computing

Developed and conducted “Introduction to the Personal Computer”, a PC workshop for students in the university's Step-Up program. Word processing and basic computer skills were taught to aid students in their college career.