

Y. Paul Lee

Space Telescope Science Institute
3700 San Martin Drive
Baltimore, MD 21218

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Curriculum Vitae

EDUCATION

The Johns Hopkins University, Baltimore, Maryland
Master of Science in Information and Telecommunication Systems,
awarded on May 27, 1999.

The Johns Hopkins University, Baltimore, Maryland
Graduate work in Physics and Astronomy.

Santa Clara University, Santa Clara, California
Master of Science in Computer Engineering, incomplete due to job relocation.

University of California at Davis, Davis, California
Bachelor of Science in Physics with High Honors,
awarded on June 19, 1992.

PROFESSIONAL STUDY

Elements of Spacecraft Design
American Institute of Aeronautics and Astronautics
December 31, 1999.

MANAGEMENT EXPERIENCE

January 2000 *Lead, Data Analyst Group*
Present Science and Instrument Support Department
Space Telescope Science Institute, Baltimore, Maryland.

July 1997 *Science Support Supervisor*
December 1999 Science Support Division
Space Telescope Science Institute, Baltimore, Maryland.

RESEARCH EXPERIENCE

October 1993 *Science Data Analyst*
to July 1997 Space Telescope Science Institute, Baltimore, Maryland.

June 1992 *Postgraduate Researcher*
to September 1993 Laboratory for Experimental Astrophysics,
Lawrence Livermore National Laboratory.

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May 1989
to June 1992

Undergraduate Research Assistant
Novel Materials Laboratories, Department of Physics,
University of California, Davis.

TECHNICAL EXPERTISE

Trained in Information System management. Fully trained and practiced with the latest up-to-date technical management techniques, including Enterprise Architecture and Resource Planning and Design (ERP, EAP, EAD), Continuous Process Improvement (CPI), Total Quality Management (TQM) and Business Process Re-engineering (BPR).

Programming Languages: JAVA, C, C++, BASIC, FORTRAN, PASCAL, ASSEMBLY, LISP, PROLOG, UNIX shell scripts, PERL.

Operating Systems: MacOS, MacOSX, UNIX, Linux, Window 95, Window Me, Window NT, Window 2000, VMS

World Wide Web: Java, HTML, JavaScript, Netscape FastTrack Server, various web page authoring software.

Applications: IDL, IRAF, and various other software packages.

Computer Engineering: Architecture, DBMS, computer networks, artificial intelligence.

Developed numerous software packages for experiment automation and data analysis, and at present, developing web-based applications that integrate Java applets, HTML, SQL, databases, and CGI programs.

Computer Software Design

AC RESISTIVITY AND SUSCEPTIBILITY UNDER PRESSURE EXPERIMENTS
Novel Materials Laboratories, UC Davis

Developed software programs for AC Resistivity and Susceptibility under Pressure Measurements. The programs automate low temperature experiments on superconductivity through interfacing microcomputers with electronic systems.

TEACHING EXPERIENCE

August 2000
to Present

Adjunct Faculty — Faculty Associate
Department of Information Technology, School of Professional Studies for Business and Education, The Johns Hopkins University.

March 1989
to June 1992

Undergraduate Teaching Assistant and Head Reader
Department of Physics, University of California, Davis.

September 1989
to March 1992

Undergraduate Reader
Department of Mathematics, University of California, Davis.

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THESIS

The Investigation of Pressure Effects on High T_c Superconductor $Ba_{1-x}K_xBiO_3$. Thesis Advisor: Dr. Robert N. Shelton.
1992, University of California, Davis.

POSTER PAPERS

Distant X-ray Clusters of Galaxies: Studies and Searches
M. Donahue, P. Lee, M. Postman, M. Dickinson, J. Stocke.
1996, BAAS, 28, #4, 1317.

GHRS Observations of the ISM Toward BD +38 2182
L. Danly, Y.P. Lee, R. Benjamin.
1996, BAAS, 28, #2, 894.

An Optical Survey of Large Interstellar Structures
Y.P. Lee, L. Danly, C. Sneden, D. Hiltgen, C.E. Albert, J. Krick,
H. Baldwin, and E. Jackson.
1995, BAAS, 27, #2, 864.

*Ultraviolet Observations toward HD 135485: Searching for Evidence
of a proposed High Velocity Cloud*
L. Danly, Y.P. Lee, C.E. Albert.
1995, BAAS, 27, #2, 860.

Ultraviolet Emission Line Ratios of Cataclysmic Variables
Y.P. Lee, C. W. Mauche, and T.R. Kallman.
1992, BAAS, 24, #4, 1138.

PUBLICATIONS

*Distant Cluster Hunting: A Comparison between the Optical and
X-Ray Luminosity Functions from an Optical/X-Ray Joint Survey*
M. Donahue, J. Mack, C. Scharf, P. Lee, M. Postman, P. Rosati,
M. Dickinson, G.M. Voit, and J.T. Stoke.
The Astrophysical Journal, 2001, 552, L93-L96.

*On the Distance to the High Velocity Cloud Complex L:
Ultraviolet Observations toward HD 135485*
L. Danly, Y.P. Lee, C.E. Albert, G. Sonneborn.
Submitted to the Astrophysical Journal.

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Ultraviolet Emission Line Ratios of Cataclysmic Variables
C.W. Mauche, Y.P. Lee, T.R. Kallman.
The Astrophysical Journal, 1997, 477, 832-847.

Modelling Emission Lines from Dwarf Novae in Quiescence
Y. Ko, Y.P. Lee, E.M. Schlegel, and T.R. Kallman.
The Astrophysical Journal, 1996, 457, 363-381.

Preparation and Superconductivity of $Ba_{1-x}K_xBiO_3$ Single Crystal
W.D. Mosley, J.Z. Liu, A. Matsushita, Y.P. Lee, P. Klavins, and R.N. Shelton.
Journal of Crystal Growth 128 (1993) 804-807.

As LEAD-INVESTIGATOR & CO-INVESTIGATOR

A Study of the Gaseous Halo of the Andromeda Galaxy
Hubble Space Telescope Cycle 6 General Observer Proposal.

Searching for the High Velocity Cloud toward HD 135485
International Ultraviolet Explorer General Observer Proposal.

OBSERVATIONAL EXPERIENCE (ASTRONOMICAL & ASTROPHYSICAL)

140-Foot Radio Telescope
National Radio Astronomy Observatory, Green Bank, West Virginia.

82-inch Telescope
McDonald Observatory, Fort Davis, Texas.

International Ultraviolet Explorer
Goddard Space Flight Center, Greenbelt, Maryland.

Hubble Space Telescope
Space Telescope Science Institute, Baltimore, Maryland.

ROSAT, ASCA — Data reduction and analysis.

EDUCATION AND OUTREACH

Speaker
Space Telescope Elementary School Outreach Program,
Office of Public Outreach, Space Telescope Science Institute,
Baltimore, Maryland.

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LEADERSHIP

August 1994
to September 1995

Project Manager — Project CHEAP

Internal project, Research Support Branch, STScI, with the objective to develop a CD-ROM and WWW-based education program utilizing the internal HST Instrument Training Exercise.

January 1991
to June 1992

President

Astronomy Club, University of California at Davis.

September 1991
to June 1992

Project Manager — Project CCD

Astronomy Club, University of California at Davis
Guiding project members in their individual or group projects.
CCD image processing.

PROFESSIONAL SOCIETIES and HONOR SOCIETIES

American Astronomical Society (AAS).
American Institute of Aeronautics and Astronautics (AIAA)
ALPHA IOTA MU national society for Information Systems