CURRICULUM VITAE

ROBERT WEST O'CONNELL

Present Address

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Born

March 22, 1943 in San Francisco, California

Family

Married Ruth V. Landean, 1976; (widowed 2004); one child

Education

University of California, Berkeley, 1960–64
AB (Great Distinction) in Astronomy, June 1964

California Institute of Technology, 1964–70
Ph.D. in Astronomy and Physics, June 1970

Honors/Awards

Phi Beta Kappa (1963)
Sigma Xi (1964)
Citation for Distinguished Scholarship (U.C. Berkeley, 1964)
Dorothea Klumpke Roberts Prize in Astronomy
(U.C. Berkeley, 1964)

For science education film, "The Invisible Universe" (1974):
Silver Award, Information Film Producers of America (1974)
Second Place, Seventh International Review of Educational Television Films (Rome, 1975)

NASA Administrator's Group Achievement Award,
Ultraviolet Imaging Telescope Science Team (1993, 1996)

Fellowships

National Science Foundation Pre-Doctoral Fellow (1964-68)
Van Maanen Fellow (Caltech) (1968-69)

Professional Societies

American Astronomical Society
Royal Astronomical Society (London)
International Astronomical Union

Scientific Interests

Stellar populations of galaxies; evolution of galaxies;
active galaxy nuclei; super star clusters;
advanced stellar evolution; cooling flows in clusters of galaxies;
ultraviolet, infrared, and X-ray astronomy

Positions Held

1960–62:	Summer Research Assistant, Radio Astronomy Laboratory, University of California, Berkeley
1969–71:	Postgraduate Research Astronomer, Lick Observatory, University of California, Santa Cruz
1971–76:	Assistant Professor of Astronomy, University of Virginia
1976–86:	Associate Professor of Astronomy, University of Virginia
1976–77:	Visiting Astronomer in Residence, Kitt Peak National Observatory
1979–85:	Chair, Department of Astronomy, University of Virginia and Director, Leander McCormick Observatory
1983–85:	Director, Virginia Institute for Theoretical Astronomy, University of Virginia
1985–86:	Visiting Scientist, NASA Goddard Space Flight Center
1986–96:	Professor of Astronomy, University of Virginia
1988–89:	Acting Chair, Department of Astronomy, University of Virginia
1991:	Visiting Astronomer, Dominion Astrophysical Observatory, Victoria, British Columbia, Canada
1995–99:	Chair, Department of Astronomy, University of Virginia and Director, Leander McCormick Observatory
1996– :	John Downman Hamilton Professor of Astronomy, University of Virginia

Other Professional Activities

1963:	Participant, Summer Institute in Space Science, Columbia University/Goddard Institute for Space Studies, New York
1966:	Participant, Summer Course on Interstellar Gas Dynamics, University of Wisconsin, Madison
1974–87:	Member, NASA Starlab Facility Definition Team
1977:	Consultant, NASA Space Telescope Instrument Selection Advisory Committee
1978–87:	US Team Leader, NASA Starlab Facility Definition Team
1979–92:	Co-Investigator, Ultraviolet Imaging Telescope (ASTRO–1 Mission)
1980–83:	Member, Kitt Peak National Observatory Users Committee
1980–84:	Member, Starlab International Joint Science Working Group
1980–82:	Chair, Starlab International Joint Science Working Group
1981–84:	Member, NASA Management and Operations Working Group for Space Astronomy
1982–86:	Chair, Astronomy Advisory Committee, Southeastern Universities Research Association
1982–84:	Member, Kitt Peak National Observatory Telescope Allocation Committee
1984:	Invited lecture series, Astronomy Department, Yale University
1985:	Chair, Large Scale Structure Panel, Infrared Astronomical Satellite Peer Review
1985:	Invited lecture series, Astronomy Department, University of Minnesota
1985:	Co-Chair, Local Organizing Committee, American Astronomical Society Meeting, Charlottesville

Other Professional Activities (continued)

1985–89:	University of Virginia Representative to the Alliance for Construction of Telescopes
1985–86:	Member, Science Advisory Group, Space Station Astrometric Telescope Facility
1989:	Chair, UV Astronomy Panel, NASA Small Explorer Program Peer Review
1989:	Participant, NSF Graduate Fellowship Program Evaluation in Physics and Astronomy
1989–93:	Member, AURA (Associated Universities for Research in Astronomy) Observatories Visiting Committee
1989:	Chair, Normal Galaxies Panel, ROSAT Peer Review
1990:	Member, ASTRO–1 Spacelab Mission Operations Team
1990–91:	Member, Hubble Space Telescope Users Committee
1990–92:	Proposal Referee, National Radio Astronomy Observatory Very Large Array
1990–91:	Member, US/USSR Implementation Team for Ultraviolet Astronomy
1990–92:	Chair, AURA Observatories Visiting Committee
1991:	Chair, Normal Galaxies Panel, ROSAT Peer Review
1991:	Chair, Stellar Populations Panel, Hubble Space Telescope Time Allocation Committee
1992–98:	Co-Investigator, Ultraviolet Imaging Telescope (ASTRO–2 Mission)
1992:	Chair, NASA Rocket Astrophysics Program Peer Review
1993–97:	Member, Management and Operations Working Group, NASA Astrophysics Science Operations and Data Analysis Branch
1993:	Chair, Extragalactic Panel, Extreme Ultraviolet Explorer and International Ultraviolet Explorer Peer Review
1994–95:	Chair, Search Committee for Director of Kitt Peak National Observatory
1994–97:	Member, Investments Advisory Committee, American Astronomical Society
1995:	Member, ASTRO–2 Spacelab Mission Operations Team
1997–98:	Program Reviewer, Canadian Space Agency
1998:	Chair, Galaxy Populations & Interactions Panel, Hubble Space Telescope Time Allocation Committee
1998– :	Chair, Scientific Oversight Committee, Hubble Space Telescope Wide Field Camera 3 Project
1999:	Member, NASA Suborbital Science Peer Review
2000–02:	Member, NASA Ultraviolet-Optical Detector Working Group
2000–02:	Member, Giant Segmented Mirror Telescope Advisory Panel (NOAO)
2001–04:	Chair, University of Virginia Faculty Senate Committees on Academic Affairs and Research & Scholarship
2002:	Member, NSF Astronomy Division Committee of Visitors
2002–05:	Proposal Referee, National Radio Astronomy Observatory Very Large Array
2003:	Member, Ad-Hoc Review Panel, Great Observatories Origins Deep Survey (STScI)

Other Professional Activities (continued)

2003–06:	Member, Associated Universities for Research in Astronomy Nominating Committee
2004–06:	Member, Tenure-Track Hiring Committee, National Radio Astronomy Observatory
2006–09:	Vice President, American Astronomical Society
2007–10 :	Member, Hubble Space Telescope Users Committee
2007– :	Member, Theia Mission Science Team
2007– :	Co-Investigator, APOGEE Project/Sloan Digital Sky Survey III
2007–09 :	Member, Sloan Digital Sky Survey III Steering Committee
2008:	Chair, Extragalactic Panel, NASA Small Explorer Mission Peer Review
2008–09:	Senior Vice President, American Astronomical Society
2011:	Member, NASA Explorer Mission Peer Review

Observational Experience

Mount Wilson Observatory
Palomar Observatory
Lick Observatory
Kitt Peak National Observatory
National Radio Astronomy Observatory
Cerro Tololo Inter-American Observatory
International Ultraviolet Explorer
Ultraviolet Imaging Telescope
Lowell Observatory
Hubble Space Telescope
ROSAT – Roentgen Satellite X-Ray Observatory
Far Ultraviolet Spectroscopic Explorer
Chandra X-Ray Observatory
GALEX – Galaxy Evolution Explorer
Steward Observatory
Keck Observatory
Gemini Observatory
Spitzer Space Telescope
Large Binocular Telescope

Sponsored Research (1998 to present)

"A Local Perspective on Galaxy Evolution in the Early Universe," NASA—Long Term Space Astrophysics Program, $913,838 (4/92-4/98).

"Dynamics and Ages of Nuclear Stellar Disks in Virgo E/S0 Galaxies," NASA—*Hubble Space Telescope*, $15,161 (4/96-4/98).

"An Ultraviolet Imaging Telescope for Astronomical Observations from Spacelab," NASA–Spacelab Program, $704,183 (1/90-7/98).

"UV Spectra of Representative Stellar Populations," NASA—*Hubble Space Telescope*, $12,034 (8/96-9/98).

"Extreme UV Stars in ω Centauri," NASA—*Hubble Space Telescope*, $40,906 (7/96-6/99).

"Nuclear Emission Line Regions Associated with Compact Flat Spectrum Radio Sources," NASA—*Hubble Space Telescope*, $11,840 (7/96-6/99).

"The Fossil Starburst in M82," NASA—*Hubble Space Telescope*, $30,713, (8/97-8/99).

"Spatially Resolved Spectroscopy of the UVX in Elliptical Galaxies," NASA—*Hubble Space Telescope*, $66,286 (1/98-12/99).

"Critical Tests of Stellar Evolution and Applications to High Redshift Systems", NASA—Long Term Space Astrophysics Program, $400,797 (1/98-8/02).

"A Complete Census of Hot Stars in Globular Clusters," NASA—*Hubble Space Telescope*, $29,474 (2/99-1/01).

"A Survey of Mid-UV Morphology of Nearby Galaxies: Galaxy Structure and Faint Galaxy Evolution," NASA—*Hubble Space Telescope*, $20,269 (12/00-11/01).

"A Deep Survey of X-Ray Sources in M32, the Nearest Elliptical Galaxy," NASA—*Chandra Advanced X-Ray Astrophysics Facility*, $70,370 (8/01-7/02).

"Ultraviolet Properties of the Metal Rich M87 Globular Cluster System," NASA—*Hubble Space Telescope*, $42,488 (1/01-12/01).

"Mid-UV Snapshot Survey of Nearby Irregulars: Galaxy Structure and Evolution Benchmark," NASA—*Hubble Space Telescope*, $2,338 (1/03-12/03).

"How Does Abundance Affect the Strength of UV Emission in Elliptical Galaxies?" NASA—*Far Ultraviolet Spectroscopic Explorer*, $16,984 (7/02-6/03).

"The Disk-Halo Connection in the Spiral Galaxy M101," NASA—*Far Ultraviolet Spectroscopic Explorer*, $39,200 (7/02-6/03).

"Spatially Resolved Spectroscopy of Super Star Clusters in the M82 Starbursts," NASA—*Hubble Space Telescope*, $76,063 (8/02-7/04).

"Green Bank Telescope Student Support for Jodie Martin," National Radio Astronomy Observatory, $17,340 (9/03-8/04).

"Mid-Ultraviolet Spectral Templates for Old Stellar Systems," NASA—*Hubble Space Telescope Treasury Program*, $96,257 (8/03-7/05).

"Interpreting Ultraviolet Spectra of Stars and Galaxies From First Principles," NASA—Long Term Space Astrophysics Program, $84,838 (4 years, 10/03-9/07).

"Mid Infrared Spectroscopy of Massive Cluster Cooling Flows," NASA Jet Propulsion Laboratory—*Spitzer Space Telescope*, $36,600 (8/04-7/07).

"Spatially Resolved Mid-UV Spectra of the Centers of Local Group Galaxies," NASA—*Hubble Space Telescope*, $88,112 (11/04-10/05). Approved, but later rescinded when the STIS instrument on HST failed.

"The Perseus Cluster in the Ultraviolet," NASA—*Galaxy Evolution Explorer*, $21,500 (3/05-2/06).

"UV Properties of Galactic Globular Clusters," NASA—*Galaxy Evolution Explorer*, $30,503 (3/05-2/06).

"Archival Study of Merger-Induced Populations in Early-Type Galaxy Cores," NASA—*Hubble Space Telescope*, $96,492 (10/04-9/06).

"Merger-Induced Populations in Early-Type Galaxy Cores," NASA—*Hubble Space Telescope*, $80,698 (2/05-1/07).

"Starbursts and Supercavities in Clusters of Galaxies," NASA Jet Propulsion Laboratory—*Spitzer Space Telescope*, $44,923 (4/05-3/08).

"The Perseus Cluster in the Ultraviolet – Spectroscopy," NASA—*Galaxy Evolution Explorer*, $60,000 (3/06-2/07).

"UV-Luminous Globular Clusters in NGC 1399," NASA–*Hubble Space Telescope*, $54,630 (7/07-6/08).

"Star Formation and Feedback in Brightest Cluster Galaxies," NASA Jet Propulsion Laboratory—*Spitzer Space Telescope*, $25,000 (7/08-6/10).

"Star Formation in the Perseus Cluster Cooling Flow," NASA—*Hubble Space Telescope*, $81,487 (5/08-4/11).

"UV Properties of Galactic Globular Clusters," NASA–GALEX, $9,393 (9/08-8/09). (Co-PI with R. Rood)

"Early Release Science Program for Wide Field Camera 3," NASA—*Hubble Space Telescope*, $455,108 (9/08-6/12).

"UV Light From Old Stellar Populations: A Census of UV Sources in Galactic Globular Clusters," NASA—*Hubble Space Telescope*, $228,233 (6/09-8/11). Co-I. (R. Rood, PI).

Pending "Super Star Clusters in the Starburst Core of M82," NASA—*Hubble Space Telescope* $15,347 (1 year).