

Curriculum Vitae: Donald Michael Terndrup

April 1, 2022

Contact information:

Department of Astronomy
Ohio State University
140 West 18th Avenue
Columbus, OH 43210
Email: Terndrup.1@osu.edu
Phone: 614-292-4579 Fax: 614-292-2928

Education:

1981 B.A. in Astronomy and Physics, University of California Berkeley
1986 Ph.D. in Astronomy, University of California Santa Cruz

Appointments since Ph.D.:

1986 – 1990 Assistant Scientist, Cerro Tololo Inter-American
Observatory, National Optical Astronomy Observatories
1990 – 1996 Assistant Professor of Astronomy, Ohio State University
1996 – present Associate Professor of Astronomy, Ohio State University
2008 – 2012 Program Director, Division of Astronomical Sciences,
National Science Foundation

Research grants:

“Abundances and Kinematics in the Inner Galaxy,” Ohio State University Seed
Grant Program, 5/1/1991 – 4/30/1992, \$11,000
“Presidential Young Investigator (PYI) Award – The Mass Distribution of the
Inner Galaxy,” National Science Foundation AST-9157038, 8/15/1991 –
7/31/1996, \$125,000
“US-Australia Cooperative Research: Abundance Ratios in Metal-Rich K Giants,”
National Science Foundation INT-9215844, 1/15/1993 – 12/31/1995,
\$18,150
“The Evolution of Angular Momentum in Low-Mass Stars,” National Science
Foundation, AST-9528227, \$68,000, 8/1/1996 – 7/31/1998, (Co-PI:
Pinsonneault)
“Standard and Nonstandard Stellar Models: Implications for Cluster Ages and
Late Evolutionary Stages,” NASA Astrophysics Theory Program, \$300,142,
1/1/1998 – 5/14/2002 (PI: Pinsonneault, Co-Is Terndrup, & Frogel)
“Towards a Consistent Theory of Rotation and Mixing from the Pre-Main
Sequence to the Horizontal Branch,” National Science Foundation, AST-
9731621, \$102,000, 5/15/1998 - 4/30/2002 (PI: Pinsonneault, Co-PI:
Terndrup)
“Collaborative Project: A Comprehensive Survey of Hot Stars in the Galactic
Bulge,” National Science Foundation, AST-9820603, \$85,000, 5/15/1998 –
4/30/2002

- “Angular Momentum Evolution and the Origin of Rotation in Stars,” National Science Foundation AST-206008 \$159,323, 6/15/02 – 5/31/05 (PI: Pinsonneault, Co-PI: Terndrup)
- “Collaborative Research: Fundamental Properties of Local Subdwarfs,” National Science Foundation AST-205789, \$126917, 7/1/02 – 6/30/05 (Co-PI: Pinsonneault)
- “An Astrometric Standard field in ω Centauri, Space Telescope Science Institute HSTAR-0958.06A, \$6,888, 7/1/03 – 8/31/06
- “Hot Horizontal-branch Stars as Fundamental Tests of Stellar Structure and Evolution,” NASA Astrophysics Theory Program NNG05GG20G, PI: Pinsonneault, Co-Is: Terndrup, Steven Kawaler (Iowa State University), \$467,611, 4/1/05 – 3/31/09
- “Stellar Rotation, Mixing, and the Chronology of the Galaxy,” National Science Foundation AST-0807308, \$249,025, 6/01/08 – 9/30/12 (Terndrup, Co-PI: Pinsonneault)
- “Stellar Rotation and the Chronology of the Galaxy,” National Science Foundation AST-1411685, \$505,783, 9/1/2014 – 2/28/2019 (co-PI: Pinsonneault)
- “Planets, Populations and Physics: Stellar Rotation in the Kepler Fields” National Aeronautics and Space Administration NNX15AF13G, \$517,479 2/6/15 – 2/5/18 (PI: Pinsonneault, Co-Is Johnson, Terndrup)
- “Collaborative Research: Spectral Synthesis for Broad Absorption Line Quasars – Feedback and Physics for Everyone,” National Science Foundation AST-2007023, \$140,940

Educational and outreach grants:

- Courseware Development Grant Program, Instructional Technologies Advisory Committee, Ohio State University, 1999, \$6,050. (Development of first distance learning course in Astronomy, running in Autumn quarter 2000.)
- Faculty Innovator Grant, Instructional Technologies Advisory Committee, Ohio State University, 2000, \$2,000. (Experiments on the design of an on-line question bank for Astronomy students and faculty.)
- TELR Research on Research: Student-Faculty e-Partnerships, 2006, \$5000. (Undergraduate research and multimedia documentation.)
- “Development of a Model Teacher/Student Workshop Program for Ohio Middle Schools,” Smithsonian Astrophysical Observatory, \$49,891, PI: Mathur, Co-I: Terndrup, 2/1/07 – 1/31/08
- “Learning Astrophysics through Data Analytics,” Ohio State Affordable Learning Exchange program, \$11,308 (1/3 cofund from Department of Astronomy).

Research colloquia and seminars:

2020 October	Ball State University
2018 August	New Mexico State University
2018 November	Georgia State University
2015 December	University of Pittsburgh
2015 October	Oklahoma University

2015 January	National Optical Astronomy Observatory
2014 December	Georgia State University
2014 July	Large Binocular Telescope Observatory and Steward Observatory, University of Arizona
2007 November	University of Oklahoma
2006 December	Pennsylvania State University
2006 May	University of Notre Dame
2005 September	Indiana University, Bloomington
2004 September	Ohio University
2004 February	Southwest Missouri State University
2004 January	Michigan State University
2003 November	Iowa State University
2001 November	Indiana University
2001 March	University of Toronto
2001 March	York University
2001 February	Columbia University
2001 January	Case Western Reserve University
2001 January	University of Michigan
2000 December	University of Wisconsin, Madison
2000 June	Ohio University
1999 November	Space Sciences Laboratory, University of California at Berkeley
1999 January	Ohio State University
1998 December	University of Notre Dame
1997 November	Michigan State University
1997 October	University of California Los Angeles
1997 October	Lick Observatory and University of California at Santa Cruz
1995 October	Indiana University Bloomington
1995 October	National Optical Astronomy Observatories and University of Arizona
1995 January	University of Toledo
1994 December	Mount Stromlo and Siding Spring Observatories, ACT, Australia
1994 November	University of Michigan
1994 September	University of Wisconsin at Madison
1993 November	Anglo-Australian Observatory, Australia
1993 November	Columbia University
1992 February	Bowling Green State University
1991 October	University of Massachusetts
1991 October	Rutgers University

Ph.D. dissertations supervised as primary advisor:

- An, D. 2008, "Improving the Local Distance Scale from Empirically Calibrated Stellar Isochrones"
- Kuchinski, L. E. 1997, "A Study of Attenuation Effects in Highly-Inclined Spiral Galaxies"
- Newsham, G. 2007 "The Horizontal Branch as a Probe of Stellar Population History"

Tiede, G. P. 1998, "Metallicities, Distances, and Kinematics of the Stellar Populations of the Bulge and Inner Disk of the Milky Way Galaxy"

Ph.D. dissertations supervised as member of dissertation committee:

- Andronov, N. 2005, "Evolution of Close Binary Stars with Application to Cataclysmic Variables and Blue Stragglers"
- Blum, R. D. 1995, "The Stellar Population at the Galactic Center and the Mass Distribution in the Inner Galaxy"
- Brainerd, T. G. 1992, "A Study of the Properties of Dark Galaxy Haloes in a CDM Universe using N-body Computer Simulations"
- Chaname, J., 2005, "Topics of Galactic Structure and Stellar and Chemical Evolution"
- Delahaye, F. 2005, "From Accurate Atomic Data to Elaborate Stellar Modeling: Structure and Collisional Data, Opacities, Radiative Accelerations"
- Godoy, D. 2021, "Exploring Gyrochronology with Precise Stellar Characterization"
- Houdashelt, M. L. 1995, "The Cool Stellar Populations of Early-type Galaxies and the Galactic Bulge"
- Krishnamurthi, A. 1998, "Angular Momentum Evolution of Low-mass Stars in the Pleiades"
- Lame, N. J. 1995, "Imaging Spectrophotometry of Planetary Nebulae"
- Popowski, P. 1998, "RR Lyrae Stars as Distance Indicators"
- Ramírez, S. V. 2000, "Stellar Abundances in the Inner Bulge and Galactic Center"
- Thakar, A. R. 1996, "A Numerical Study of Counterrotating Disks in Spiral Galaxies"

Awards:

- 1991 Presidential Young Investigator Award, National Science Foundation
- 1989 Trumpler Prize of the Astronomical Society of the Pacific
- 1986 ARCS Foundation Scholar, Northern California Chapter

Current and Recent Department Service:

- | | |
|-------------|---|
| 2019 – 2022 | Graduate Admissions Committee |
| 2019 – 2022 | Diversity Committee |
| 2019 – 2020 | Colloquium Committee |
| 2012 – 2019 | Director of Undergraduate Studies |
| 2013 – 2014 | Curriculum Committee |
| 2012 – 2013 | Colloquium Committee |
| 2007 – 2008 | Director of Undergraduate Studies |
| 2007 – 2008 | Director of Outreach |
| 2001 – 2008 | Undergraduate Studies Committee (chair 2004 – 2008) |
| 2001 – 2005 | MDM Observatory Committee |
| 2003 | Faculty Recruiting |
| 1998 – 2001 | Computer Committee (chair) |

1997 – 2005 Graduate Admissions Committee

University Service:

2015 – 2016 Advisory board, Louis Stokes Alliance for Minority Participation
2012 – 2015 ASC Honors Committee (chair 2014-5)
2014 – 2015 OSU Honors and Scholars Faculty Advisory Committee
2012 – 2013 ASC Implementation Committee for STEM Efforts
2014, 2015 Presentation judge, Hayes Graduate Research Forum
2000 – 2004 Board of Directors, Ohio State University Research Foundation
2000 – 2001 Budget Advisory Committee to the Vice President and Provost
1998 – 2004 Computing Committee, CMPS
1998 Presentation Judge, Graduate Research Forum
1997 – 2004 CMPS New Technologies in the Science Classroom
1997 - 2000 Alternate, University Senate
1996 – 2000 Research and Graduate Council:
1996 – 1998: Graduate Assistant and Fellowship Committee (chair
2nd year)
1998 – 2000: Research Committee (chair 2nd year)

Community Service:

2019 Visiting Committee to evaluate the Division of Astronomical Sciences,
National Science Foundation
2018 – 2020 Reviewer, NASA postdoctoral fellowship program
2017 Review panel, Division of Astronomical Sciences, National Science
Foundation
2015 Review panel, Chandra X-Ray Observatory
2015 Review panel, Division of Astronomical Sciences, National Science
Foundation
2014 Review panel, Division of Astronomical Sciences, National Science
Foundation
2014 Review panel, Graduate Research Fellows program, National Science
Foundation
2014 Review panel, CAREER program, National Science Foundation
2014 Review panel, Hubble Space Telescope, Cycle 22
2014 Review panel, NASA Exoplanets Research Program (chair)
2013 Review panel, Division of Astronomical Sciences, National Science
Foundation
2008 Review panel, Graduate Research Fellows Program, National Science
Foundation (chair)
2007 Review panel, Graduate Research Fellows Program, National Science
Foundation
2005 NASA FUSE satellite Cycle 7 review panel
2003 Review panel, Postdoctoral Fellowship program
1999 Review panel, Division of Astronomical Sciences, National Science
Foundation
1998 – 1999 NOAO Telescope Allocations Committee

1997 – 1998 CTIO Telescope Allocations Committee
1996 – 1999 Publications Board, Astronomical Society of the Pacific
1996 Review panel, Hubble Space Telescope, Cycle 7
1995 Scientific Organizing Committee, “Structure, Kinematics, and History of the Galactic Nuclear Bulge,” held in March 1996, Lick Observatory and University of California at Santa Cruz
1991 - 1994 Telescope Allocation Committee, Kitt Peak National Observatory
1989 Working Group on Scientific Applications of 8-m Telescopes in Galactic Structure, NOAO