Peter M. Frinchaboy III

Professor & Graduate Director, Department of Physics & Astronomy, Texas Christian University, Fort Worth, TX 76129 USA

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LEADERSHIP & ADMINISTRATIVE APPOINTMENTS:

2025-Present	Co-Chair, After Sloan 5 Steering Committee (AS5SC)
2019-Present	Collaboration Committee, Sloan Digital Sky Survey-V
2015-Present	Director of Graduate Programs, Department of Physics & Astronomy, TCU
2023-2025	MSE Project Scientist, Canada-France-Hawai'i Telescope, CFHT
2011-2024	Director, Research Experience for Undergraduates (REU) Site Program, TCU
2012-2022	Management Committee, Survey Coordinator, Sloan Digital Sky Survey-IV
2008-2014	APOGEE Survey Operations Scientist, Sloan Digital Sky Survey-III

RESEARCH WORK:

My internationally recognized research focuses on observation-based study of Milky Way and Local Group stellar populations and stellar properties, with a focus on utilizing star clusters to analyze and calibrate large-scale systematic surveys and missions such as the Sloan Digital Sky Survey (SDSS-III,- IV, & -V) and ESA Gaia.

Research Accomplishments:

- \$17.6M in External Funding as PI/Co-I/Senior Personnel (NSF/NASA/Private)
- \$4.0M in External Funding as PI (\$2M+ from NSF)
- 120+ Published refereed journal articles (*h-index* = 65 from NASA ADS)
- Successfully directed/co-directed 8 PhDs and 5 MS
- 75+ Student-led Conference presentations

Professional Appointments:

Professor of Physics & Astronomy, Texas Christian University (2021 – Present)

MSE Project Scientist, Canada-France-Hawai'i Telescope (2023 – 2025)

Associate Professor of Physics & Astronomy, Texas Christian University (2015 – 2021)

Assistant Professor of Physics & Astronomy, Texas Christian University (2009 – 2015)

NSF Astronomy & Astrophysics Postdoctoral Fellow, U. Wisconsin (2006 – 2009)

Educational Background:

Ph.D. in Astronomy	University of Virginia, Charolttesville, VA	2006
M.S. in Astronomy	University of Virginia, Charolttesville, VA	2002
B.S. in Physics	California State University, Sacramento (Minors: Astro, CSC)	2000

Research Interests:

- Characterizing stellar populations with photometry and high resolution spectroscopy.
- Chemodynamical evolution of the Milky Way and Local Group galaxies.
- PI of the Open Cluster Chemical Abundances & Mapping (OCCAM) survey.
- Calibration of stellar surface chemical variations (e.g., diffusion, mixing) using star clusters.
- Identification of binary star populations using multi-wavelength photometry.
- Optimizing the design and operation of large collaborative surveys (SDSS, MSE).

SERVICE AND COMMITTEE WORK:

Texas Christian University:

University Graduate Council (2025–Present)

High-performance Computing Committee (2018–Present)

Physics & Astronomy Advisory Committee (2016–Present)

Texas Space Grant Consortium: TCU Institutional Representative (2014–Present)

Co-Chair, Provost Promotion & Tenure Review Committee (2021–2023)

Faculty Senator (CSE: 2021–2023)

Physics & Astronomy Curriculum Committee (Chair: 2017–2023)

University Technology Committee (2015–2022; Chair 2020–2022)

Chair, Astrophysics Faculty Search Committee (2014 & 2018)

Member, Physics Faculty Search Committee ('10, '12, '15, '17, '18, '19 [×2], '23 [×2])

External:

(2015 - Present) American Astronomical Society (AAS), Department Chairs Committee

(2014 – Present) American Astronomical Society Agent

(2024) MSE Virtual Workshop, (SOC & LOC Chair)

(2020) SDSS-IV/APOGEE-2 Science Meeting, (LOC Chair & SOC)

(2016) AAS Science and Engineering Congressional Visits Day

(2015) Texas Astronomy Undergraduate Research Symposium (TAURS) and Building Astronomy in Texas (BAT) meeting (SOC)

(2015) The SDSS-IV/APOGEE-2 South Targeting Training Workshop (LOC Chair & SOC)

(2013) The SDSS-IV Operations Planning Meeting, (LOC Chair & SOC)

Proposal Reviewer for National Science Foundation, NASA, HST, FONDECYT (Chile).

Manuscript Reviewer for Astronomy & Astrophysics, Astrophysical Journal, Astronomical Journal, Monthly Notices of the Royal Astronomical Society, PASP.

PROFESSIONAL AFFILIATIONS:

American Astronomical Society (1999–Present)

American Astronomical Society: Dynamical Division (2001–Present)

International Astronomical Union (2012–Present)

Canadian Astronomical Society (2023–Present)

Sloan Digital Sky Survey V (2018–Present)

Sloan Digital Sky Survey IV (2012–2022)

Sloan Digital Sky Survey III (2009–2012)

Raven Society, University of Virginia (Inducted 2005)

 $\Sigma\Pi\Sigma$ National Physics Honor Society (Inducted 1998)