

Refereed Publications:

- Frinchaboy, P. M.** & Phelps, R. L. 2002, “A Search for Candidate Old Open Clusters: Preliminary Photometry of the Saurer et al. Clusters,” *AJ*, 123, 2552
- Crane, J. D., Majewski, S. R., Rocha-Pinto, H. J., **Frinchaboy, P. M.**, Skrutskie, M. F., Law, D. R. 2003, “Exploring Halo Substructure with Giant Stars: Spectroscopy of Stars in the Galactic Anticenter Stellar Structure,” *ApJL*, 594, 119
- Frinchaboy, P. M.**, Majewski, S. R., Crane, J. D., Reid, I. N., Rocha-Pinto, H. J., Phelps, R. L., Patterson, R. J., Muñoz R. R. 2004, “Star Clusters in the Galactic Anticenter Stellar Stream and the Origin of Old Open Clusters,” *ApJL*, 602, L21
- Majewski, S. R., Kunkel, W. E., Law, D. R., Patterson, R. J., Polak, A. A., Rocha-Pinto, H. J., Crane, J. D., **Frinchaboy, P. M.**, Hummels, C. B., Johnston, K. V., Rhee, J., Skrutskie, M. F., & Weinberg, M. 2004, “A 2MASS All-Sky View of the Sagittarius Dwarf Galaxy: II. Swope Telescope Spectroscopy of M Giant Stars in the Dynamically Cold Sagittarius Tidal Stream,” *AJ*, 128, 245
- Crane, J. D., Majewski, S. R., Patterson, R. J., Skrutskie, M. F., Adams, E. Y., **Frinchaboy, P. M.** 2004, “The Fan Observatory Bench Optical Spectrograph,” *PASP*, 117, 526
- Majewski, S. R., **Frinchaboy, P. M.**, Kunkel, W. E., Link, R., Muñoz R. R., Ostheimer, J. C., Palma, C., Patterson, R. J., & Geisler, D. 2004, “Exploring Halo Substructure with Giant Stars. VI. Extended Distributions of Giant Stars Around the Carina Dwarf Spheroidal Galaxy – How Reliable are They?,” *AJ*, 130, 2677
- Muñoz R. R., **Frinchaboy, P. M.**, Majewski, S. R., Kuhn, J. R., Chou, M.-Y., Palma, C., Sohn, S., Patterson, R. J. & Siegel, M. H, 2005, “Exploring Halo Substructure with Giant Stars: The Velocity Dispersion Profiles of the Ursa Minor and Draco Dwarf Spheroidals At Large Angular Separations,” *ApJL*, 631, L137
- Westfall, K.B., Ostheimer, J. C., Majewski, S. R., Patterson, R. J., **Frinchaboy, P. M.**, Link, R. & Kunkel, W. E. 2005, “Exploring Halo Substructure with Giant Stars. VIII. The Extended Structure of the Sculptor Dwarf Spheroidal Galaxy,” *AJ*, 131, 357
- Frinchaboy, P. M.**, Muñoz R. R., Phelps, R. L., Majewski, S. R. & Kunkel, W. E. 2006, “Photometry and Spectroscopy of Old, Outer Disk Star Clusters: Berkeley 29, Saurer 1 and BH176,” *AJ*, 131, 922
- Muñoz R. R., Majewski, S. R., Zaggia, S., Kunkel, W. E., **Frinchaboy, P. M.**, Nidever, D. L., Crnojevic, D., Patterson, R. J., Crane, J. D., Johnston, K. V., Sohn, S., Bernstein, R., & Shectman, S. 2006, “Exploring Halo Substructure with Giant Stars. XI. Exploring the Tidal Tails of the Carina Dwarf Spheroidal and the Discovery of a New Foreground Halo Tidal Stream,” *ApJ*, 649, 201
- Muñoz R. R., Carlin, J. L., **Frinchaboy, P. M.**, Nidever, D. L., Majewski, S. R. & Patterson, R. J. 2006, “Exploring Halo Substructure with Giant Stars: The Dynamics and Metallicity of the Dwarf Spheroidal in Boötes,” *ApJ*, 650, L51
- Frinchaboy, P. M.** & Majewski, S. R. 2007, “Exploring Galactic Disk Tracers: I. A New Open Cluster Kinematic Survey for Galactic Rotation Studies,” *ApJS*, *in preparation*

Conference Proceedings

- Majewski, S. R., Patterson, R. J., Palma, C., Westfall, K. B., Siegel, M. H., Ostheimer, J. C., **Frinchaboy, P. M.**, Link, R. & Sohn, S. 2002, "Effects of Tidal Disruption on Inferred Galactic Star Formation Histories," in "Modes of Star Formation and the Origin of Field Populations," eds. E.K. Grebel & W. Brandner, (ASP: San Francisco), ASP Conf. Ser. Vol. 285, p. 199.
- Majewski, S. R., Forestell, A. D., Ostheimer, J. C., Palma, C., Siegel, M. H., Sohn, S., Westfall, K. B., Patterson, R. J., **Frinchaboy, P. M.**, Link, R., Kunkel, W. E. & Johnston, K. V. 2002, "The Extended Shapes of Galactic Satellites," in "Yale Cosmology Conference: The Shapes of Galaxies and Their Halos," ed. P. Natarajan, (World Scientific: Singapore), p. 214.
- Frinchaboy, P. M.**, Rhee, J., Ostheimer, J. C., Majewski, S. R., Patterson, R. J., Johnson, W. Y., Dinescu, D., Palma, C., Westfall, K. B. & Kunkel, W. E. 2002, "The Metallicity Distribution Function of ω Centauri," in "Omega Centauri: A Unique Window Into Astrophysics," eds. F. van Leeuwen, G. Piotto & J. Hughes, ASP Conf. Ser. 265, p. 143
- Frinchaboy, P. M.** 2004, "The Absolute Space Motions of Galactic Clusters," Virginia Space Grant Consortium, Student Research Conf. (<http://www.vsgc.odu.edu/conf04>)
- Frinchaboy, P. M.**, Muñoz R. R., Majewski, S. R., Friel, E. D., Phelps, R. L., & Kunkel, W. E. 2005, "Star Clusters in the Galactic Anticenter Stellar Structure: New Radial Velocities and Metallicities," in "Chemical Abundances and Mixing in Stars in the Milky Way and its Satellites," eds. L. Pasquini & S. Randich, ESO Astrophysics Symposia, *in press* (astro-ph/0411127)
- Frinchaboy, P. M.** 2005, "The Absolute Space Motions of Galactic Clusters: Outer Old Open Cluster Origins," Virginia Space Grant Consortium, Student Research Conf. (<http://www.vsgc.odu.edu/conf05>)
- Frinchaboy, P. M.** & Majewski, S. R. 2005, "Determination of the Galactic Rotation Using Open Star Clusters: Preliminary Results," in "Island Universes: Structure and Evolution of Disk Galaxies," ed. R. de Jong, ESO Astrophysics Symposia, *in press* (astro-ph/0508666)
- Frinchaboy, P. M.** 2006, "Testing the BH 176 and Berkeley 29 Association with GASS/Monoceros," in "Globular Clusters - Guides to Galaxies," eds. T. Richtler & Soeren Larsen, ESO/Springer Conference Proceeding, *in press* (astro-ph/0604133)
- Frinchaboy, P. M.** 2006, "Tracing the Dynamics of the Galactic Disk," Virginia Space Grant Consortium, Student Research Conf. (<http://www.vsgc.odu.edu/conf06>)

Public Presentations

- "A Search for Candidate Old Open Clusters: The 'Saurer et al.' Clusters," 14th Annual Local CSU research competition, California State University, Sacramento (Sacramento, CA), March 4, 2000
- "A Search for Candidate Old Open Clusters: The 'Saurer et al.' Clusters," 14th Annual CSU system-wide research competition, California Polytechnic State University, Pomona (Pomona, CA), May 5-6, 2000

- “The Absolute Space Motions of Galactic Clusters,” Virginia Space Grant Consortium Student Conference (Hampton, VA), April 2, 2004
- “Star Clusters in the Galactic Anticenter Stellar Structure,” NRAO Jansky Symposium, University of Virginia (Charlottesville, VA), November 17, 2004
- “Light and Dark Matter in the Milky Way: Determination of the Galactic Velocity Field Using Star Clusters,” UVa Astronomy Symposium, University of Virginia (Charlottesville, VA), February 4, 2005
- “The Absolute Space Motions of Galactic Clusters: Outer Old Open Cluster Origins,” Virginia Space Grant Consortium Student Conference (Newport News, VA), April 1, 2005
- “Tracing Galactic Dark Matter from the Halo to the Disk,” UW Astronomy Lunch talk (Seattle, WA), September 21, 2005
- “Tracing Galactic Dark Matter from the Halo to the Disk,” UWisc. Galaxies Lunch talk (Madison, WI), September 28, 2005
- “Order, Disorder, and Dark Matter in the Milky Way,” Naval Research Lab RIOS talk (Washington, DC), October 7, 2005
- “Tracing the Dynamical Evolution of the Galactic Disk”, American Astronomical Society (Washington, DC), January 9, 2005 (Dissertation Talk)
- “Tracing the Dynamical Evolution of the Galactic Disk”, UVa Astronomy Symposium, University of Virginia (Charlottesville, VA), February 3, 2006
- “Tracing the Dynamicals of the Galactic Disk”, Virginia Space Grant Consortium Student Conference (Newport News, VA), April 11, 2006
- “Tracing Local Dark Matter: New Findings from the Galactic Halo”, California State University, Sacramento, Physics & Astronomy Colloquium Series (Sacramento, CA), April 20, 2006
- “Using Open Clusters to Trace the Local Milky Way Rotation Curve and Velocity Field”, “Dissecting the Milky Way” workshop (Leiden, Netherlands), November 8, 2006

Poster Presentations

- Frinchaboy, P. M.** & Phelps, R.L., “The Palomar-Las Campanas Observatory-NOAO (PLCON) Open Cluster Survey: Some Initial Results,” at the 194th Meeting of the American Astronomical Society, Chicago, IL, May 30–Jun. 3, 1999
- Frinchaboy, P. M.**, Majewski, S.R., Rhee, J., Ostheimer, J.C., Patterson, R.J., Kunkel, W.E., Johnson, W.Y., Dinescu, D., Palma, C. & Westfall, K.B., “The Metallicity Distribution Function of Omega Centauri,” at the Omega Centauri Workshop, Cambridge, England, Aug 13–16, 2001
- Frinchaboy, P. M.**, Muñoz R. R., Majewski, S. R., Friel, E. D., Phelps, R. L., & Kunkel, W. E., “Star Clusters in the Galactic Anticenter Stellar Structure: New Radial Velocities and Metallicities,” at the Chemical Abundances and Mixing in Stars in the Milky Way and its Satellites conference, Grosseto, Italy, Sept 13–17, 2004
- Frinchaboy, P. M.**, Muñoz R. R., Majewski, S. R., Friel, E. D., Phelps, R. L., & Kunkel, W. E., “The Galactic Anticenter Stellar Structure and Outer Old Open Cluster Origins,” at the 205th Meeting of the American Astronomical Society, San Diego, CA, Jan 9–13, 2005

- Frinchaboy, P. M.**, Muñoz R. R., Majewski, S. R., “Chemodynamics of Outer Disk Star Clusters: Edge of the Disk or Tidal Debris?,” at the Robert J. Huskey Graduate Research Exhibition, Charlottesville, VA, April 11, 2005
- Frinchaboy, P. M.** & Majewski, S. R. “Determination of the Galactic Rotation Curve Using Open Star Clusters: Preliminary Results,” at the Island Universes: Structure and Evolution of Disk Galaxies conference, Terschelling, Netherlands, July 3-8, 2005
- Frinchaboy, P. M.** & Majewski, S. R. “Determination of the Galactic Rotation Curve Using Open Star Clusters: Preliminary Results,” at the Nearly Normal Galaxies in a Λ CDM Cosmology conference, Santa Cruz, CA, August 8–12, 2005
- Frinchaboy, P. M.** & Majewski, S. R. “Testing the BH 176 and Berkeley 29 Association with GASS/Monoceros,” at the Globular Clusters - Guides to Galaxies conference, Concepcion, Chile, March 5–10, 2006
- Frinchaboy, P. M.** & Majewski, S. R. “Using Open Clusters to Trace the Local Milky Way Rotation Curve and Velocity Field,” at the 209th Meeting of the American Astronomical Society, San Diego, CA, Jan 6–10, 2007

Abstracts

- Phelps, R. L., Tollefson, J., Reafsnnyder, S., **Frinchaboy, P.**, Craig, A., Postlethwaite, J., Marshall, T. 2000, “The Palomar-Las Campanas Observatory-NOAO (PLCON) Open Cluster Survey,” BAAS, 41.04.
- Westfall, K. B., Ostheimer, J. C., **Frinchaboy, P. M.**, Patterson, R. J., Majewski, S. R. & Kunkel, W. E. 2000, “Exploring the Extended Structure of the Sculptor Dwarf Spheroidal Galaxy”, BAAS, 133.01.
- Crane, J. D., Majewski, S. R., Patterson, R. J., Bahcall, J. N., Skrutskie, M. F., Rhee, J., & **Frinchaboy, P. M.** 2003, “Exploring Galactic Structure with the Fan Mountain Observatory Bench Spectrograph,” BAAS, 112.06.
- Pakzad, S. L., Majewski, S. R., **Frinchaboy, P. M.**, Hummels, C. B., Ivezić, Z., Johnston, K. V., Law, D. R., Patterson, R. J., Prada, F., Skrutskie, M. F. 2004, “Tidal Streams in the Outer Galactic Halo: Pieces of a 500-degree Long Trailing Sagittarius Tidal Tail?,” BAAS, 142.05.
- Majewski, S. R., **Frinchaboy, P. M.**, & Patterson, R. J. 2006, “Tracing the Dynamics of the Galactic Disk with SIM PlanetQuest,” BAAS, 117.01.