

Jennifer G. Winters, Ph.D.

Research Associate

Center for Astrophysics | Harvard & Smithsonian
Solar, Stellar, & Planetary Sciences Division
60 Garden Str., P351
Cambridge, MA 02138

jennifer.winters@cfa.harvard.edu
617.496.7952
<https://www.cfa.harvard.edu/~jwinters/>

Education

2016 **Ph.D. in Astronomy**

Georgia State University, Atlanta, GA

Thesis Advisor: Todd J. Henry

Areas of Experience: Optical/IR Photometry, Astrometry, M Dwarf Multiplicity

2012 **M.S. in Physics** (Concentration in Astronomy)

Georgia State University, Atlanta, GA

2007 **B.S. in Music Management**

Georgia State University, Atlanta, GA

1993-1996 Music & Women's Studies

University of Georgia, Athens, GA

1988-1992 Piano & Musicology Studies

University of Tennessee, Knoxville, TN

Work History

2018 – present Research Associate, Center for Astrophysics | Harvard & Smithsonian
Supervisor: David Charbonneau, Professor of Astronomy

2015 – 2018 Post-doctoral Researcher, Harvard-Smithsonian Center for Astrophysics
Supervisor: David Charbonneau, Professor of Astronomy

2007 – 2015 Astronomy Graduate Research Assistant at Georgia State University
Supervisor: Todd J. Henry, Professor of Astronomy

2003 – 2007 Astronomy Undergraduate Research Assistant at Georgia State University
Supervisor: Todd J. Henry, Professor of Astronomy

1989 – 2015 Restaurant & Private Yachting Industry: Knoxville, TN; Atlanta, GA; Europe,
Caribbean, New England

Awards

2018 – Poster Prize, Second Place, (20th Cambridge Workshop on Cool Stars, Stellar
Systems, and the Sun, Cambridge, MA): *A Nearly Volume-Complete Spectroscopic
Survey of the Closest Mid-M Dwarfs*

2016 – Poster Honorable Mention, (19th Cambridge Workshop on Cool Stars, Stellar
Systems, and the Sun, Uppsala, Sweden): *The Nearby M Dwarfs and their Dance*

Jennifer G. Winters – Curriculum Vitae

Refereed First Authored Journal Publications

9. **Winters, Jennifer G.**, Cloutier, R., Medina, A.A., Irwin, J.M., Charbonneau, D. et al., 2022, *A Second Planet Transiting LTT 1445A and a Determination of the Masses of Both Worlds* (in press)
8. **Winters, Jennifer G.**, Charbonneau, D., Henry, T.J., Irwin, J.M., Jao, W.-C., Riedel, A.R., Slatten, K., 2021, *The Volume-Complete Sample of M Dwarfs with Masses 0.1-0.3 Msol within 15 Parsecs*, AJ, 161, 63
7. **Winters, Jennifer G.**, Irwin, J.M., Charbonneau, D., Latham, D.W., Medina, A.M., Berlind, P., Calkins, M., Esquerdo, G.A., Mink, J., 2020, *Spectroscopic Orbits for Eleven Nearby, Mid-to-Late M Dwarf Multiple Systems*, AJ, 159, 290
6. **Winters, Jennifer G.**, Irwin, J.M., Medina, A.M., Charbonneau, D., Horch, E.P., Astudillo-Defru, N., Vrijmoet, E., Diamond-Lowe, H., Bonfils, X., Henry, T.J., Jao, W.-C., et al., 2019, *Three Red Suns in the Sky: A Transiting, Terrestrial Planet in a Triple M Dwarf System at 6.9 Parsecs*, AJ, 158, 152
5. **Winters, Jennifer G.**, Henry, T.J., Jao, W.-C., Subasavage, J.P., Chatelain, J.P., Riedel, A.R., Slatten, K.J., Silverstein, M.L., Payne, M.J., 2019, *The Solar Neighborhood XLV: The Stellar Multiplicity Fraction of M Dwarfs Within 25 Parsecs*, AJ, 157, 216
4. **Winters, Jennifer G.**, Irwin, J., Newton, E.R., Charbonneau, D., Latham, D.W., Han, E., Muirhead, P.S., Berlind, P., Calkins, M., Esquerdo, G., 2018, *LHS 1610A – A Nearby Mid-M Dwarf With A Companion That Is Likely A Brown Dwarf*, AJ, 155, 125
3. **Winters, Jennifer G.**, Sevrinsky, R.A., Jao, W.-C., Henry, T.J., Riedel, A.R., Subasavage, J.P., Lurie, J.C., Ianna, P.A., 2017, *The Solar Neighborhood XXXVIII. Results from the CTIO 0.9m: Trigonometric Parallaxes for 151 Nearby M Dwarf Systems*, AJ, 153, 14
2. **Winters, Jennifer G.**, Henry, T.J., Lurie, J.C., Hambly, N.C., Jao, W.C., Bartlett, J.L., Boyd, M.R., Dieterich, S.B., Finch, C.T., Hosey, A.D., Ianna, P.A., Riedel, A.R., Subasavage, J.P., Slatten, K.J., 2015, *The Solar Neighborhood XXXV: Distances to 1404 M Dwarf Systems Within 25 pc in the Southern Sky*, AJ, 149, 5
1. **Winters, Jennifer G.**, Henry, T.J., Jao, W.-C., Subasavage, J.P., Finch, C.T., Hambly, N.C., 2011, *The Solar Neighborhood. XXIII. CCD Photometric Distance Estimates of SCR Targets —77 M Dwarf Systems within 25 pc*, AJ, 141, 21

Refereed Co-Authored Journal Publications

49. Medina, A.A., Charbonneau, D., **Winters, J.G.**, Irwin, J.M., and Mink, J., *Variability Timescales of H-alpha on Active Mid-to-Late M dwarfs* (in review)
48. Vrijmoet, E.H., Tokovinin, A., Henry, T.J., **Winters, J.G.**, Horch, E.H., Jao, W.-C., 2022, *The Solar Neighborhood XLIX: New Discoveries and Orbits of M Dwarf Multiples with Speckle Interferometry at SOAR* (in press)

47. Salama, M., Ziegler, C., Baranec, C., ... , **Winters, J.G.**, et al., *An Adaptive Optics Census of Companions to Northern Stars Within 25 pc with Robo-AO* (in press)
46. Giacalone, S., Dressing, C.D., Kostov, V.B., ... , **Winters, J.G.**, et al., *Validation of 10 Hot and Potentially Terrestrial TESS Planets* (in press)
45. Silverstein, M.L., Schlieder, J.E., Barclay, T., ... , **Winters, J.G.**, et al., *The LHS 1678 System: Two Earth-Sized Transiting Planets and an Astrometric Companion Orbiting an M Dwarf Near the Convective Boundary at 20 pc* (in press)
44. Horch, E.P., Broderick, K.G., Casetti-Dinescu, D.I., ... , **Winters, J.G.**, et al., 2021, *Observations with the Differential Speckle Survey Instrument. X. Preliminary Orbits of K-dwarf Binaries and Other Stars*, AJ, 161, 295
43. Ment, K. Irwin, J.M., Charbonneau, D., **Winters, J.G.**, et al., 2021, *TOI 540 b: A Planet Smaller than Earth Orbiting a Nearby Rapidly Rotating Low-mass Star*, AJ, 161, 23
42. Medina, A.A., **Winters, J.G.**, Irwin, J.M., and Charbonneau, D., 2020, *Flare Rates, Rotation Periods. and Spectroscopic Activity Indicators of a Volume-Complete Sample of Mid-to-Late M dwarfs within 15 Parsecs*, ApJ, 905, 107
41. Gilbert, E.A., Barclay, T., Schlieder, J.E., ... , **Winters, J.G.**, 2020, *The First Habitable-zone Earth-sized Planet from TESS. I. Validation of the TOI-700 System*, AJ, 160, 116
40. Cloutier, R., Rodriguez, J.E., Irwin, J.M., ... , **Winters, J.G.**, et al., 2020, *TOI-1235 b: A Keystone Super-Earth for Testing Radius Valley Emergence Models around Early M Dwarfs*, AJ, 160, 22
39. Cloutier, R., Eastman, J.D., Rodriguez, J.E., ... , **Winters, J.G.**, 2020, *A Pair of TESS Planets Spanning the Radius Valley around the Nearby Mid-M Dwarf LTT 3780*, AJ, 160, 3
38. Horch, E.P., van Belle, G.T., Davidson, J.W., Jr., ... , **Winters, J.G.**, 2020, *Observations of Binary Stars with the Differential Speckle Survey Instrument. IX. Observations of Known and Suspected Binaries, and a Partial Survey of Be Stars*, AJ, 159, 233
37. Gan, T., Shporer, A., Livingston, J.H., ... , **Winters, J.G.**, 2020, *LHS 1815b: The First Thick-disk Planet Detected by TESS*, AJ, 159, 160
36. Lamman, C., Baranec, C., Berta-Thompson, Z., ... , **Winters, J.G.**, et al., 2020, *ROBO-AO M DWARF MULTIPLICITY SURVEY: Catalog*, AJ, 159, 139
35. Astudillo-Defru, N., Cloutier, R., Wang, S.X., ... , **Winters, J.G.**, 2019, *A Hot Terrestrial Planet Orbiting the Bright M Dwarf L 168-9 Unveiled by TESS*, A&A, 636, 58
34. Kain, I.J., Newton, E.R., Dittmann, J.A., ... , **Winters, J.G.**, 2020, *The young planetary system K2-25: Constraints on Companions and Starspots*, AJ, 159, 83
33. Shporer, A., Collins, K.A., Astudillo-Defru, N., ... , **Winters, J.G.**, et al., 2020, *GJ 1252 b: A 1.2 R_{Earth} planet transiting an M dwarf at 20.4 pc*, ApJ, 890, L7
32. Quinn, S.N., Becker, J.C., Rodriguez, J.E., ... , **Winters, J.G.**, 2019, *Near-resonance in a System of Sub-Neptunes from TESS*, AJ, 158, 177
31. Crossfield, I.J.M., Waalkes, W., Newton, E.R., ... , **Winters, J.G.**, 2019, *A Super-Earth and Sub-Neptune Transiting the Late-type M Dwarf LP 791-18*, ApJL, 883, L16

30. Günther, M.N., Pozuelos, F.J., Dittmann, J.A., ... , **Winters, J.G.**, 2019, *A Super-Earth and two sub-Neptunes transiting the bright, nearby, and quiet M-dwarf TOI-270*, *Nature Astronomy*, 409
29. Kostov, Veselin, Schlieder, J.E., Barclay, T., ... , **Winters, J.G.**, 2019, *The L 98-59 System: Three Transiting, Terrestrial-Sized Planets Orbiting a Nearby M-dwarf*, *AJ*, 158, 32
28. Vanderspek, Roland, Huang, C.X., Vanderburg, A., ... , **Winters, J.G.**, the TESS team, 2019, *TESS Discovery of an Ultra-Short-Period Planet Around the Nearby M Dwarf LHS 3844*, *ApJL*, 871, L24
27. Horch, E.H., Tokovinin, A., Weiss, S.A., ... , **Winters, J.G.**, et al., 2019, *Observations of Binary Stars with the Differential Speckle Survey Instrument. VIII. Measures of Metal-Poor Stars and Triple Stars from 2015 to 2018*, *AJ*, 157, 56
26. Ment, Kristo, Dittmann, J.A., Astudillo-Defru N., ... , **Winters, J.G.**, et al., 2019, *A Second Planet with an Earth-Like Composition Orbiting the Nearby M dwarf LHS 1140*, *AJ*, 157, 32
25. Newton, Elisabeth R., Mondrik, N., Irwin, J.M., **Winters, J.G.**, Charbonneau, D., 2018, *New Rotation Period Measurements for M Dwarfs in the Southern Hemisphere: An Abundance of Slowly Rotating, Fully Convective Stars*, *AJ*, 156, 217
24. Irwin, Jonathan M., Charbonneau, D., Esquerdo, G.A., ... , **Winters, J.G.**, et al., 2018, *Four New Eclipsing Mid-M Dwarf Systems From the New Luyten Two Tenths Catalog*, *AJ*, 156, 140
23. Riedel, Adric R., Silverstein, M.L., Henry, T.J., Jao, W.-C., **Winters, J.G.**, et al., 2018, *The Solar Neighborhood XLIII: Discovery of New Nearby Systems with $\mu < 0.18''/\text{yr}$ (TINYMO Sample)*, *AJ*, 156, 49
22. Henry, Todd J., Jao, W.-C., **Winters, J.G.**, et al., 2018, *The Solar Neighborhood XLIV: RECONS Discoveries Within 10 Parsecs*, *AJ*, 155, 265
21. Mayo, Andrew W., Vanderburg, A., Latham, D.W., ... , **Winters, J.G.**, 2018, *275 Candidates and 149 Validated Planets Orbiting Bright Stars in K2 Campaigns 0–10*, *AJ*, 155, 3
20. Jao, Wei-Chun, Henry, T.J., **Winters, J.G.**, et al., 2017, *The Solar Neighborhood XLII: Parallax Results from the CTIOPI 0.9-m Program - Identifying New Nearby Subdwarfs Using Tangential Velocities and Locations on the H-R Diagram*, *AJ*, 154, 191
19. Bartlett, Jennifer L., Lurie, J.C., ... , **Winters, J.G.**, et al., *The Solar Neighborhood XXXX: Parallax Results from the CTIO 0.9-m Program: New Young Stars Near the Sun*, *AJ*, 154, 151
18. Clements, Tiffany D., Henry, T.J., ... , **Winters, J.G.**, et al., 2017, *The Solar Neighborhood XLI: A Study of the Wide Main Sequence for M Dwarfs – Long-Term Photometric Variability*, *AJ*, 154, 124
17. Horch, Elliott P., Casetti-Dinescu, D.I., Camarata, M.A., ... , **Winters, J.G.**, 2017, *Observations of Binary Stars with the Differential Speckle Survey Instrument. VII. Measures from 2010 September to 2012 February at the WIYN Telescope*, *AJ*, 153, 212
16. Dittmann, Jason A., Irwin, J.M., Charbonneau, D., ... , **Winters, J.G.**, et al., 2017, *A Temperate Rocky Super-Earth Transiting a Nearby Cool Star*, *Nature*, 544, 333

15. Jao, Wei-Chun, Henry, T.J., Riedel, A.R., **Winters, J.G.**, et al., 2016, *Distance Dependent Offsets Between Parallaxes for Nearby Stars and Gaia DR1 Parallaxes*, ApJL, 832, L18
14. Howell, Steve B., Everett, M.E., Horch, E.P., **Winters, J.G.**, et al., 2016, *High-Resolution Optical Imaging of TRAPPIST-1*, ApJL, 829, L2
13. Chatelain, Joey P., Henry, T.J., French, L.M., **Winters, J.G.**, Trilling, D.E., 2016, *Photometry of the Brightest Members of the Jupiter L5 Cloud*, Icarus, 271, 158
12. Horch, Elliott P., van Altena, W., Demarque, P., ... , **Winters, J.G.**, 2015, *Observations of Binary Stars with the Differential Speckle Survey Instrument. V. Toward an Empirical Metal-Poor Mass-Luminosity Relation*, AJ, 149, 151
11. Hosey, Altonio D., Henry, T.J., Jao, W.C., Dieterich, S.B., **Winters, J.G.**, et al., 2015, *The Solar Neighborhood XXXVI: The Long-Term Photometric Variability of Nearby Red Dwarfs in the VRI Optical Bands*, AJ, 150, 6
10. Davison, Cassy L., White, R.J., Henry, T.J., ... , **Winters, J.G.**, 2015, *A 3D Search for Companions to 12 Nearby M-Dwarfs*, AJ, 149, 106
9. Lurie, John C., Henry, T.J., Jao, W.C., Quinn, S.N., **Winters, J.G.**, et al., 2014, *The Solar Neighborhood. XXXIV. A Search for Planets Orbiting Nearby M Dwarfs using Astrometry*, AJ, 148, 91
8. Davison, Cassy L., White, R.J., Jao, W.-C., ... , **Winters, J.G.**, Crockett, C.J., 2014, *The Closest M Dwarf Quadruple System to the Sun*, AJ, 147, 26
7. Riedel, Adric R., Finch, C.T., Henry, T.J., ... , **Winters, J.G.**, et al., 2014, *The Solar Neighborhood. XXXIII. Parallax Results from the CTIOPI 0.9m Program: Trigonometric Parallaxes of Nearby Low-Mass Active and Young Systems*, AJ, 147, 85
6. Dieterich, Sergio, Henry, T.J., Jao, W.-C., **Winters, J.G.**, et al., 2014, *The Solar Neighborhood XXXII: The Hydrogen Burning Limit*, AJ, 147, 94
5. Jao, Wei-Chun, Henry, T.J., Subasavage, J.P., **Winters, J.G.**, et al., 2014, *The Solar Neighborhood XXXI: Discovery of an Unusual Red+White Dwarf Binary at ~25 pc via Astrometry and UV Imaging*, AJ, 147, 21
4. Mamajek, Eric E., Bartlett, J.L., Seifahrt, A., ... , **Winters, J.G.**, et al., 2013, *The Solar Neighborhood XXX. Fomalhaut C*, AJ, 146, 154
3. Boyd, Mark R., **Winters, J.G.**, Henry, T.J., et al., 2011, *The Solar Neighborhood. XXV. Discovery of New Proper Motion Stars with $0.40 \text{ "yr}^{-1} > \mu \geq 0.18 \text{ "yr}^{-1}$ between Declinations -47° and 00°* , AJ, 142, 10
2. Jao, Wei-Chun, Henry, T.J., Subasavage, J.P., **Winters, J.G.**, Riedel, A.R., Ianna, P.A., 2011, *The Solar Neighborhood. XXIV. Parallax Results from the CTIOPI 0.9 m Program: Stars with $\mu \geq 1.0 \text{ "yr}^{-1}$ (MOTION Sample) and Subdwarfs*, AJ, 141, 117
1. Riedel, Adric R., Subasavage, J.P., Finch, C.T., ... , **Winters, J.G.**, et al., 2010, *The Solar Neighborhood. XXII. Parallax Results from the CTIOPI 0.9 m Program: Trigonometric Parallaxes of 64 Nearby Systems with $0.5 \leq \mu \leq 1.0 \text{ "yr}^{-1}$ (SLOWMO Sample)*, AJ, 140, 897

Conference Proceedings

Frederick W. Hahne, Horch, E.P., van Belle, G.T., Clark, C., **Jennifer G. Winters**, Henry, T.J., 2018, *Two-Color Speckle Imaging of M Dwarfs with the Discovery Channel Telescope*, Proc. SPIE 10701, Optical and Infrared Interferometry and Imaging VI, 107012A

Dupuy, Trent J., Allen, P.R., Kraus, A.L., Biller, B., Blake, C.H., Davison, C., Deacon, N.R., Duchêne, G., Geller, A.M., King, R.R., Law, N.M., Nguyen, D.C., Reipurth, B., **Winters, J.G.**, Zhang, Z.H., 2013, *Multiplicity of Cool Dwarfs*, AN, 334, 36

8 First Author & 51 Co-Author Conference Posters (2008 – 2021)

Invited & Contributed Talks & Papers

16. Invited Talk: *TESS* Science Meeting II. (2021)
15. Contributed Talk: 20.5th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun (virtual, 2021)
14. Contributed Talk: AAS #235 (2020)
13. Contributed Talk: *TESS* Science Meeting I. (2019)
12. Contributed Talk: AAS #233 (2019)
11. Contributed Talk: AAS #231 (2018)
10. Invited Talk: Stars & Planets Seminar, Harvard-Smithsonian Center for Astrophysics (2017)
9. Contributed Talk: The Impact of Binaries on Stellar Evolution Conference, Garching, Germany (2017)
8. Invited Talk: Opportunity M, Harvard-Smithsonian Center for Astrophysics (2016)
7. Contributed Talk: IAUS #314 (2015)
6. Contributed Talk: AAS #225 (2015)
5. Invited Paper: *Our Red Dwarf Neighbors*, NOAO Newsletter #110, 7 (2014)
4. Invited Talk: Astronomy Club, Georgia State University (2013)
3. Contributed Talk: AAS #221 (2013)
2. Contributed Talk: 17th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, Barcelona, Spain (2012)
1. Invited Talk: Astrobiology Science Conference, Atlanta, GA (2012)

Science Colloquia

- 2021 *Georgia State University, Atlanta, GA*
2020 *American Museum of Natural History, New York, NY*
2019 *Dartmouth College, Hanover, NH*
2018 *Gemini Observatory, Hilo, HI*
2016 *Gemini Observatory, La Serena, Chile*
2012 *Cerro Tololo Inter-American Observatory, La Serena, Chile*
2012 *Lowell Observatory, Flagstaff, AZ*

External Funding (Principal Investigator): \$229K

- 2021 *Legacy Light Curves of a Volume-Complete Sample of the Nearby Mid-to-Late M Dwarfs with TESS - TESS-GI Program, Cycle 4: \$70K*

Jennifer G. Winters – Curriculum Vitae

- 2021 *Confirming the Host Star of a Second Planet in the LTT 1445ABC System - HST Mid-Cycle 28: \$36K*
- 2020 *Legacy Light Curves of a Volume-Complete Sample of the Nearby Mid-to-Late M Dwarfs with TESS - TESS-GI Program, Cycle 3: \$40K*
- 2019 *Legacy Light Curves of a Volume-Complete Sample of the Nearby Mid-to-Late M Dwarfs with TESS - TESS-GI Program, Cycle 2: \$50K*
- 2018 *Legacy Light Curves of a Volume-Complete Sample of the Nearby Mid-to-Late M Dwarfs with TESS - TESS-GI Program, Cycle 1: \$25K*
- 2015 *Red Dwarf Multiplicity in the Solar Neighborhood*
Georgia State University Dissertation Grant Program: \$2K
- 2014 *Red Dwarf Multiplicity in the Solar Neighborhood*
Sigma Xi Committee on Grants-In-Aid of Research: \$2.4K
- 2013 *Red Dwarf Multiplicity in the Solar Neighborhood*
Sigma Xi Committee on Grants-In-Aid of Research: \$3.6K

External Funding (Co-Investigator): \$54K

- 2021 *An HST exclusive look at two rising stars: high-energy spectra of the two closest M dwarfs to host transiting terrestrial exoplanets - HST Cycle 29: \$14K*
- 2021 *The Thermal Emission Spectrum of the Closest M Dwarf Transiting Rocky Planet - JWST Cycle 1: \$40K*

Successful Telescope Time Proposals (Principal Investigator)

- 2022A *Searching for Companions to Nearby M Dwarfs on Solar System Scales (1 night)*
Differential Speckle Survey Instrument ('Alopeke/Zorro) – Gemini-North & -South
- 2021B *Searching for Companions to Nearby M Dwarfs on Solar System Scales (5 nights)*
Differential Speckle Survey Instrument ('Alopeke/Zorro) – Gemini-North & -South
- 2021A *Searching for Companions to Nearby M Dwarfs on Solar System Scales (5.5 nights)*
Differential Speckle Survey Instrument ('Alopeke/Zorro) – Gemini-North & -South
- 2020A *Searching for Companions to Nearby M Dwarfs on Solar System Scales (2.5 nights)*
Differential Speckle Survey Instrument ('Alopeke/Zorro) – Gemini-North & -South
- 2019A *Searching for Companions to Nearby M Dwarfs on Solar System Scales (1.5 nights)*
NN-Explore Exoplanet Stellar Speckle Imager (NESSI) – WIYN
- 2019A *Searching for Companions to Nearby M Dwarfs on Solar System Scales (2 nights)*
Differential Speckle Survey Instrument (DSSI) – Gemini-South
- 2018B *Searching for Companions to Nearby M Dwarfs on Solar System Scales (4 nights)*
Differential Speckle Survey Instrument ('Alopeke/DSSI) – Gemini-North & -South
- 2018A *Searching for Companions to Nearby M Dwarfs on Solar System Scales (4 nights)*
Differential Speckle Survey Instrument ('Alopeke/DSSI) – Gemini-North & -South

2016 - 2021 *Characterizing the Nearby Northern Mid-to-Late M Dwarfs with TRES*
42 nights on the Whipple 1.5m

2011 - 2012 *Finding Friends for 1200 Red Dwarfs*
5 nights on the CTIO 0.9m telescope for thesis work from NOAO
14 nights on the CTIO 1.0m telescope for thesis work from NOAO

Observing Experience

Optical Transit Photometry: MEarth Observatory: 30 nights

Optical/IR Speckle: Gemini-South,-North 8.1m (DSSI, 'Alopeke): 19 nights

Optical/IR Speckle: Kitt Peak National Observatory WIYN 3.5m (DSSI): 2 nights (remote)

Optical/IR Imaging: Cerro Tololo Inter-American Observatory 0.9m: 124 nights (Co-I)
Cerro Tololo Inter-American Observatory 1.0m: 12 nights (PI)
Lowell Observatory 42in: 43 nights (PI)

Optical Spectroscopy: Whipple Observatory 1.5m (FAST + TRES): 13 nights
Lowell Observatory 72in: 4 nights

Teaching Experience

2021 Harvard University Science Education Undergraduate Mentoring Workshop

2012, 2014 Astronomy 1010 Substitute Lecturer for Todd J. Henry

2006-2011 Teaching Assistant for Introductory Astronomy Laboratories at GSU

Graduate Research Co-Supervised

2019 – present Emily Pass (Harvard University): *A Search for Giant Planets in the Volume-Complete Survey of Nearby Mid-to-Late M Dwarfs*

2018 – 2021 Amber Medina (Harvard University): *Variability of Magnetic Phenomena for the Volume-Complete Sample of Mid-to-Late M Dwarfs Within 15 Parsecs*

Undergraduate Research Supervised

Summer 2017 Arcelia Hermosillo Ruiz (UC Berkeley via Banneker Institute at CfA):
Vetting the Nearby Northern M Dwarfs as Exoplanet Hosts

Service and Public Outreach

2016 - 2020 Panel Reviewer: NASA Astrophysics Data Analysis Program (ADAP),
Exoplanet Research Program (XRP)

2017 - 2018 Local Organizing Committee – Cool Stars 20: Cambridge, MA

2017 Science by the Pint - The Burren, Somerville, MA

2016 – 2018 Exoplanet Pizza Lunch Organizer, Harvard-Smithsonian CfA

2015 Local Organizing Committee – IAUS #314: Young Stars and Planets Near
Jennifer G. Winters – Curriculum Vitae

the Sun

- 2012 – 2015 CTIO/SMARTS 0.9m Graduate Fellow
- 2008 Science Olympiad at GSU
- 2007 – 2015 Hard Labor Creek Observatory Open Houses (2 per year)

Technical Skills (programming & database)

- Interactive Data Language (IDL): 10+ years programming experience
- Image Reduction & Analysis Facility (IRAF): 10+ years photometry & astrometry experience; 5 years echelle spectroscopy experience
- RECONS Photometry, Astrometry, and 25 Parsec Databases (2003-2015): Co-Construction & Maintenance
- Python, LaTeX, Bash, Supermongo

Professional Affiliations

- American Astronomical Society (AAS) - member since 2007
- Sigma Xi Scientific Research Society – member 2013 - 2015

Languages

English (native), French (conversational), Spanish (conversational)