

John P. Subasavage, Jr.

Education

- 2007 **Ph.D. in Astronomy**
Georgia State University, Atlanta, GA
Graduate Advisor: Todd J. Henry
- 2005 **M.S. in Physics**
Georgia State University, Atlanta, GA
Graduate Advisor: Todd J. Henry
- 2000 **B.A. in Astronomy/Economics**
University of Virginia, Charlottesville, VA
Undergraduate Advisors: Steven R. Majewski & Phil A. Ianna

Professional History

- 2009 **SMARTS/CTIO Fellow**
Cerro Tololo Inter-American Observatory
- 2007 **SMARTS Fellow**
Georgia State University
- 2002 **Graduate Teaching Assistant**
Georgia State University

External Funding -- Continuing

- 2009-2011 Received as Principal Investigator
Binaries at the Extremes of the H-R Diagram
\$25,031 from the Space Telescope Science Institute
- 2006-2011 Received as Principal Investigator
Calibrating Cosmological Chronometers: White Dwarf Masses
\$134,560 from the Space Telescope Science Institute

External Funding -- Concluded

- 2008-2009 Received as Principal Investigator
SIM's Search for Planets Orbiting White Dwarfs
\$25,000 from the NASA Exoplanet Science Institute
- 2005-2008 Received as Co-Investigator (PI: Todd J. Henry, GSU)
The RECONS Investigation of the Solar Neighborhood
\$522,966 from the National Science Foundation

Honors

2007 **Outstanding Advanced Graduate Student Award**
Georgia State University

Refereed Journal Publications

30. Mason, B. D., Hartkopf, W. I., Raghavan, D., Subasavage, J. P., Roberts, L. C., Jr., Turner, N. H., & ten Brummelaar, T. A. 2011, AJ, submitted, *Know the Star, Know the Planet. II. Speckle Interferometry of Exoplanet Host Stars*
29. Riedel, A. R., Murphy, S. J., Henry, T. J., Melis, C., Jao, W.-C., & Subasavage, J. P. 2011, AJ, 142, 104, *The Solar Neighborhood. XXVI. AP Col: The Closest (8.4 pc) Pre-main-sequence Star*
28. Boyd, M. R., Henry, T. J., Jao, W.-C., Subasavage, J. P., & Hambly, N. C. 2011, AJ, 142, 92, *The Solar Neighborhood. XXVII. Discovery of New Proper Motion Stars with $\mu \geq 0.18'' \text{ yr}^{-1}$ in the Southern Sky with $16.5 < R_{59F} \leq 18.0$*
27. Boyd, M. R., Winters, J. G., Henry, T. J., Jao, W.-C., Subasavage, J. P., & Hambly, N. C. 2011, AJ, 142, 10, *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°*
26. Jao, W.-C., Henry, T. J., Subasavage, J. P., Winters, J. G., Riedel, A. R., & Ianna, P. A. 2010, AJ, 141, 117, *The Solar Neighborhood. XXIV. Parallax Results from the CTIOPI 0.9m Program: Stars with $\mu \geq 1.0'' \text{ yr}^{-1}$ (MOTION Sample) and Subdwarfs*
25. von Braun, K., Boyajian, T. S., Kane, S. R., van Belle, G. T., Ciardi, D. R., López-Morales, M., McAlister, H. A., Henry, T. J., Jao, W.-C., Riedel, A. R., Subasavage, J. P., Schaefer, G., ten Brummelaar, T. A., Ridgway, S., Sturmann, L., Sturmann, J., Mazingue, J., Turner, N. H., Farrington, C., Goldfinger, P. J., & Boden, A. F. 2011, ApJL, 729, L26, *Astrophysical Parameters and Habitable Zone of the Exoplanet Hosting Star GJ 581*
24. Winters, J. G., Henry, T. J., Subasavage, J. P., Jao, W.-C., Finch, C. T., & Hambly, N. C. 2011, AJ, 141, 21, *The Solar Neighborhood. XXIII. CCD Photometric Distance Estimates of SCR Targets – 77 M Dwarf Systems within 25 Parsecs*
23. Riedel, A. R., Subasavage, J. P., Finch, C. T., Jao, W.-C., Henry, T. J., Winters, J. G., Brown, M. A., Ianna, P. A., Costa, E., & Méndez, R. A. 2010, AJ, 140, 897, *The Solar Neighborhood. XXII. Parallax Results from the CTIO 0.9m Program: Trigonometric Parallaxes of 64 Nearby Systems with $0.5'' \leq \mu \leq 1.0'' \text{ yr}^{-1}$ (SLOWMO SAMPLE)*
22. Subasavage, J. P., Jao, W.-C., Henry, T. J., Bergeron, P., Dufour, P., Ianna, P. A., Costa, E., & Méndez, R. A. 2009, AJ, 137, 4547, *The Solar Neighborhood. XXI. Parallax Results from the CTIO 0.9m Program: 20 New Members of the 25 Parsec White Dwarf Sample*

21. Subasavage, J. P., Henry, T. J., Bergeron, P., Dufour, P., & Hambly, N. C. 2008, AJ, 136, 899, *The Solar Neighborhood. XX. Discovery and Characterization of 21 New Nearby White Dwarf Systems*
20. Jao, W.-C., Henry, T. J., Beaulieu, T. D., & Subasavage, J. P. 2008, AJ, 136, 840, *Cool Subdwarf Investigations (CSI). I. New Thoughts for the Spectral Types of K and M Subdwarfs*
19. Holberg, J. B., Sion, E. M., Oswalt, T., McCook, G. P., Foran, S., & Subasavage, J. P. 2008, AJ, 135, 1225, *A New Look at the Local White Dwarf Population*
18. Subasavage, J. P. 2007, PASP, 119, 1345, *White Dwarfs in the Solar Neighborhood*
17. Gizis, J. E., Jao, W.-C., Subasavage, J. P., & Henry, T. J. 2007, ApJL, 669, L45, *The Trigonometric Parallax of the Brown Dwarf Planetary System 2MASSW J1207334-393254*
16. Subasavage, J. P., Henry, T. J., Bergeron, P., Dufour, P., Hambly, N. C., & Beaulieu, T. D. 2007, AJ, 134, 252, *The Solar Neighborhood. XIX. Discovery and Characterization of 33 New Nearby White Dwarf Systems*
15. Finch, C. T., Henry, T. J., Subasavage, J. P., Jao, W.-C., & Hambly, N. C. 2007, AJ, 133, 2898, *The Solar Neighborhood. XVIII. Discovery of New Proper Motion Stars with $0.40'' \text{ yr}^{-1} > \mu \geq 0.18'' \text{ yr}^{-1}$ Between Declinations -90° and -47°*
14. Grundstrom, E. D., Blair, J. L., Gies, D. R., Huang, W., McSwain, M. V., Raghavan, D., Riddle, R. L., Subasavage, J. P., Wingert, D. W., Levine, A. M., & Remillard, R. A. 2007, ApJ, 656, 431, *Joint Ha and X-Ray Observations of Massive X-Ray Binaries. I. The B Supergiant System LS I +65 010 = 2S 0114+650*
13. Henry, T. J., Jao, W.-C., Subasavage, J. P., Beaulieu, T. D., Ianna, P. A., Costa, E., & Méndez, R. A. 2006, AJ, 132, 2360, *The Solar Neighborhood, XVII. Parallax Results from the CTIO 0.9m Program: 20 New Members of the RECONS 10 Parsec Sample*
12. Costa, E., Méndez, R. A., Jao, W.-C., Henry, T. J., Subasavage, J. P., & Ianna, P. A. 2006, AJ, 132, 1234, *The Solar Neighborhood. XVI. Parallaxes from CTIOPI: Final Results from the 1.5 m Telescope Program*
11. Raghavan, D., Henry, T. J., Mason, B. D., Subasavage, J. P., Jao, W.-C., Beaulieu, T. D., & Hambly, N. C. 2006, ApJ, 646, 523, *Two Suns in The Sky: Stellar Multiplicity in Exoplanet Systems*
10. Monteiro, H., Jao, W.-C., Henry, T. J., Subasavage, J. P., & Beaulieu, T. D. 2006, ApJ, 638, 446, *Ages of White Dwarf-Red Subdwarf Systems*
9. Subasavage, J. P., Henry, T. J., Hambly, N. C., Brown, M. A., Jao, W.-C., & Finch, C. T. 2005, AJ, 130, 1658, *The Solar Neighborhood. XV. Discovery of New High Proper Motion Stars with $\mu \geq 0.4'' \text{ yr}^{-1}$ between Declinations -47° and 00°*

8. Costa, E., Méndez, R. A., Jao, W.-C., Henry, T. J., Subasavage, J. P., Brown, M. A., Ianna, P. A., & Bartlett, J. L. 2005, AJ, 130, 337, *The Solar Neighborhood. XIV. Parallaxes from the Cerro Tololo Inter-American Observatory Parallax Investigation - First Results from the 1.5 m Telescope Program*
7. Jao, W.-C., Henry, T. J., Subasavage, J. P., Brown, M. A., Ianna, P. A., Bartlett, J. L., Costa, E., & Méndez, R. A. 2005, AJ, 129, 1954, *The Solar Neighborhood. XIII. Parallax Results from the CTIOPI 0.9m Program: Stars with $\mu \geq 1.0 \text{ '' yr}^{-1}$ (MOTION Sample)*
6. Subasavage, J. P., Henry, T. J., Hambly, N. C., Brown, M. A., & Jao, W.-C. 2005, AJ, 129, 413, *The Solar Neighborhood. XII. Discovery of New High Proper Motion Stars with $\mu \geq 0.4 \text{ '' yr}^{-1}$ between Declinations -90° and -47°*
5. Deacon, N. R., Hambly, N. C., Henry, T. J., Subasavage, J. P., Brown, M. A., & Jao, W.-C. 2005, AJ, 129, 409, *The Solar Neighborhood. XI. The Trigonometric Parallax of SCR 1845-6357*
4. Henry, T. J., Subasavage, J. P., Brown, M. A., Beaulieu, T. D., Jao, W.-C., & Hambly, N. C. 2004, AJ, 128, 2460, *The Solar Neighborhood. X. New Nearby Stars in the Southern Sky and Accurate Photometric Distance Estimates for Red Dwarfs*
3. Hambly, N. C., Henry, T. J., Subasavage, J. P., Brown, M. A., & Jao, W.-C. 2004, AJ, 128, 437, *The Solar Neighborhood. VIII. Discovery of New High Proper Motion Nearby Stars Using the SuperCOSMOS Sky Survey*
2. Jao, W.-C., Henry, T. J., Subasavage, J. P., Bean, J. L., Costa, E., Ianna, P. A., & Méndez, R. A. 2003, AJ, 125, 332, *The Solar Neighborhood. VII. Discovery and Characterization of Nearby Multiples in the CTIO Parallax Investigation*
1. Dinescu, D. I., Majewski, S. R., Girard, T. M., Méndez, R. A., Sandage, A., Siegel, M. H., Kunkel, W. E., Subasavage, J. P., & Ostheimer, J. 2002, ApJ, 575L, 67, *Absolute Proper Motions to $B \sim 22.5$. V. Detection of Sagittarius Dwarf Spheroidal Debris in the Direction of the Galactic Anticenter*

Book Chapter

1. Henry, T. J., Gies, D. R., Jao, W.-C., Riedel, A. R., Subasavage, J. P., Benedict, G. F., Harris, H. C., Ianna, P. A., Thorstensen, J. R., Beichman, C., Prato, L. A., & Simon, M. 2009, *Stellar Maps with SIM*, in *SIM Lite Astrometric Observatory*, eds. J. Davidson, S. Unwin, S. Edberg, R. Danner, & B. Nemati, JPL Publication, 400-1360

Invited Talk

1. Subasavage, J. P. 2004, Invited Talk (203rd Meeting of the American Astronomical Society, Atlanta, GA): *White Dwarfs in the Solar Neighborhood*

Conference Proceedings

7. Sayres, C., Subasavage, J. P., Bergeron, P., Davenport, J. R. A., & AlSayyad, Y. 2010, *Multi-Survey and Statistical Methods for Cool White Dwarf Discovery*, 17th European Workshop on White Dwarfs, eds. K. Werner & T. Rauch, AIP Conference Proceedings, 1273, 180
6. Subasavage, J. P., Bailyn, C. D., Smith, R. C., Henry, T. J., Walter, F. M., & Buxton, M. M. 2010, Talk (San Diego) and Paper: *SMARTS Revealed*, Observatory Operations: Strategies, Processes, and Systems III, eds. D. R. Silva, A. B. Peck, & B. T. Soifer, SPIE Astronomical Instrumentation, 7737, 77371C-1
5. Subasavage, J. P., Henry, T. J., Jao, W.-C., Nelan, E. P., Harris, H. C., & Dahn, C. C. 2009, Talk (Barcelona, ES) and Paper: *Calibrating Cosmological Chronometers: White Dwarf Masses via Astrometry*, 16th European Workshop on White Dwarfs, eds. E. Garcio-Berro, M. Hernanz, J. Isern & S. Torres, Journal of Physics Conference Series, 172, 012017
4. Jao, W.-C., Henry, T. J., Subasavage, J. P., Ianna, P. A., Costa, E., & Méndez, R. A. 2008, *Spying on your neighbors with ultra-high precision*, A Giant Step: from Milli- to Micro-arcsecond Astrometry, eds. W. Jin, I. Platais, & M. A. C. Perryman, IAU Symposium, 248, 421
3. Subasavage, J. P., Henry, T. J., Bergeron, P., Dufour, P., Hambly, N. C., & Beaulieu, T. D. 2007, Talk (Leicester, UK) and Paper: *Identifying and Characterizing New Nearby White Dwarfs*, 15th European Workshop on White Dwarfs, eds. R. Napiwotzki & M. Burleigh, ASP Conference Series, 372, 53
2. Jao, W.-C., Henry, T. J., Subasavage, J. P., & Beaulieu, T. D. 2005, *Where are the stellar road runners in the sky?*, Astrometry in the Age of the Next Generation of Large Telescopes, eds. P. K. Seidelmann & A. K. B. Monet, ASP Conference Series, 338, 268
1. Henry, T. J., Jao, W.-C., Subasavage, J. P., Ianna, P. A., Costa, E., & Méndez, R. A. 2005, *Results from CTIOPI: Parallaxes, Perturbations, and Pushing Towards SIM PlanetQuest*, Astrometry in the Age of the Next Generation of Large Telescopes, eds. P. K. Seidelmann & A. K. B. Monet, ASP Conference Series, 338, 228

Science Colloquia

3. December 2010 European Southern Observatory, Santiago, Chile
2. February 2009 United States Naval Observatory Flagstaff Station, Flagstaff, AZ
1. December 2008 United States Naval Observatory, Washington, DC

Posters

35. Winters, J. G., Henry, T. J., Jao, W.-C., Subasavage, J. P., Finch, C. T., & Hambly, N. C. 2011, AAS, 218, 32601, *A SMARTS Distance Runner: The 0.9m at CTIO*
34. Henry, T. J., Boyd, M. R., Davison, C., Dieterich, S. B., Finch, C. T., Ianna, P. A., Jao, W.-C., Koerner, D. W., Riedel, A. R., Subasavage, J. P., Tanner, A. M., & Winters, J. G. 2011, AAS, 218, 20402, *The SMARTS Way to Build a Map to the Stars*
33. Sayres, C. C., Subasavage, J. P., Bergeron, P., Davenport, J. R. A., AlSaiyyad, Y. 2011, AAS, 217, 34101, *Multi-survey and LDA Techniques for Cool White Dwarf Discovery*
32. Boyd, M., Winters, J. G., Finch, C. T., Henry, T. J., Subasavage, J. P., Jao, W.-C. & Hambly, N. C. 2010, AAS, 215, 42408, *MINIMO 2: Hitting Moving Targets in the Southern Sky*
31. Henry, T. J., Boyd, M. R., Dieterich, S., Finch, C. T., Jao, W.-C., Riedel, A. R., Subasavage, J. P. & Winters, J. G. 2010, AAS, 215, 42407, *Spying on Our Neighbors 2000-2010*
30. Subasavage, J. P. 2010, AAS, 215, 30006, *SIM's Search for Planets Orbiting White Dwarfs – Final Report*
29. Howard, A., Ford, E., Gaudi, B. S., Olling, R., Subasavage, J. P. & Tanner, A. 2010, AAS, 215, 23302, *SIM Science Studies to Enhance Planet-Finding and Characterizing Capabilities*
28. Subasavage, J. P. 2009, AAS, 214, 41109, *SIM's Search for Planets Orbiting White Dwarfs - Update*
27. Subasavage, J. P. 2009, AAS, 213, 45502, *SIM's Search for Planets Orbiting White Dwarfs*
26. Winters, J. G., Henry, T. J., Subasavage, J. P., Jao, W.-C., Finch, C. T., Hambly, N. C., & RECONS Team. 2009, AAS, 213, 40704, *NOW SHOWING! The Big Picture – Putting the SCR Sample in Context*
25. Henry, T. J., Koerner, D. W., Jao, W.-C., Subasavage, J. P., Ianna, P. A., Bean, J. L., Benedict, G. F., McArthur, B. E., & RECONS Team. 2007, AAS, 211, 13416, *Dancing in the Dark --- Unseen Companions of Nearby Stars*
24. Winters, J. G., Subasavage, J. P., Finch, C. T., Jao, W.-C., Hambly, N. C., Henry, T. J., & RECONS Team. 2007, AAS, 211, 10408, *BEWARE! Neighborhood Watch Area --- SCR Discoveries within 25 Parsecs*

23. Jao, W.-C., Beaulieu, T. D., Henry, T. J., Subasavage, J. P., & RECONS Team. 2007, AAS, 211, 5911, *Cool Subdwarf Investigations (CSI): Spectral Sequence*
22. Subasavage, J. P. 2007, AAS, 211, 2203, Talk: *White Dwarfs in the Solar Neighborhood*
21. Bartlett, J. L., Ianna, P. A., Henry, T. J., Begam, M. C., Jao, W.-C., Subasavage, J. P., & RECONS Team. 2007, AAS, 211, 2102, *Knowing Our Neighbors: Fundamental Properties of Nearby Stars*
20. Holberg, J. B., Sion, E. M., Oswalt, T., McCook, G. P., & Subasavage, J. P. 2007, AAS, 211, 1513, *A New Census of the Local White Dwarf Population*
19. Subasavage, J. P., Bergeron, P., Henry, T. J., Dufour, P., Hambly, N. C., Beaulieu, T. D., & RECONS Team. 2006, AAS, 209, 10305, *The Hunt for Nearby White Dwarfs*
18. Henry, T. J., Koerner, D. W., Jao, W.-C., Subasavage, J. P., Ianna, P. A., & RECONS Team. 2006, AAS, 209, 2404, *Clandestine Companions of Nearby Red Dwarfs*
17. Grundstrom, E., Gies, D. R., Blair, J., Caballero-Nieves, S., Finch, C., O'Brien, D., Rafter, S., Raghavan, D., Subasavage, J. P., Trippe, M., Williams, S., Zaballa, R., Huang, W., McSwain, M. V., & Wingert, D. W. 2006, AAS, 208, 410, *Spectroscopy of Be X-ray Binaries*
16. Jao, W.-C., Henry, T. J., Subasavage, J. P., Beaulieu, T. D., & RECONS Team. 2005, AAS, 207, 12406, *Nearby Cool Subdwarfs in a Bucket*
15. Henry, T. J., Jao, W.-C., Subasavage, J. P., & RECONS Team. 2005, AAS, 207, 11705, *Nearby Red Dwarfs are Sexy for Planets and Life*
14. Raghavan, D. R., Henry, T. J., Mason, B. D., Subasavage, J. P., Jao, W.-C., Beaulieu, T. D., & Hambly, N. C. 2005, AAS, 207, 6804, *Two Suns in The Sky: Stellar Multiplicity in Exoplanet Systems*
13. Monteiro, H., Subasavage, J. P., Jao, W.-C., Henry, T. J., & RECONS Team. 2005, AAS, 207, 814, *White Dwarf Binaries and Planetary Nebulae: Do we really understand the connection?*
12. Henry, T. J., Beaulieu, T. D., Brown, M. A., Jao, W. C., Monteiro, H., Subasavage, J. P., & RECONS Team. 2004, AAS, 205, 16507, *New Nearby Stars from NOAO and SMARTS Observations*
11. Jao, W.-C., Henry, T. J., Subasavage, J. P., Beaulieu, T. D., & Monteiro, H. 2004, AAS, 205, 5502, *Where are the stellar "road runners" — beep beep — in the sky?*
10. Subasavage, J. P., Henry, T. J., Hambly, N. C., Brown, M. A., Jao, W.-C., & Beaulieu, T. D. 2004, AAS, 205, 5501, *Introducing the SuperCOSMOS-RECONS (SCR) Proper Motion Survey*
9. Beaulieu, T. D., Jao, W.-C., Henry, T. J., Subasavage, J. P., & Brown, M. A. 2003, AAS, 203, 4304, *Optical Spectroscopy of Southern High Proper Motion Stars*

8. Koerner, D. W., Henry, T. J., Fuhrman, L. A., Parker, C. C., Kaplan, I. J., Jao, W.-C., & Subasavage, J. P. 2003, AAS, 203, 4207, *Astrometric Search for Planets Encircling Nearby Stars (ASPENS)*
7. Raghavan, D., Henry, T. J., Subasavage, J. P., & Beaulieu, T. D. 2003, AAS, 203, 4205, *Two Suns in the Sky: Many Extrasolar Planets Orbiting Stars in Multiple Systems*
6. Jao, W.-C., Henry, T. J., Subasavage, J. P., Williams, C., & RECONS Team. 2002, AAS, 201, 7501, *Discovery of new nearby multiples in CTIOPI*
5. Henry, T. J., Jao, W.-C., Subasavage, J. P., Costa, E., Ianna, P. A., Mendez, R. A., & RECONS Team. 2002, AAS, 201, 2109, *The RECONS Census: Spying on Your Neighbors*
4. Henry, T. J., Subasavage, J. P., Jao, W.-C., Costa, E., Ianna, P. A., Mendez, R. A., & RECONS Team. 2001, AAS, 199, 13001, *RECONS Discoveries of New Nearby Stars*
3. Jao, W.-C., Subasavage, J. P., Henry, T. J., Williams, C., Costa, E., Ianna, P. A., Mendez, R. A., & RECONS Team. 2001, AAS, 199, 12906, *The RECONS Effort to Characterize the Highest Proper Motion Stars*
2. Bean, J. L., Henry, T. J., Jao, W.-C., & Subasavage, J. P. 2001, AAS, 199, 0602, *The RECONS Hunt for Intriguing Binaries in the Solar Neighborhood*
1. Ianna, P. A., Begam, M. C., Subasavage, J. P., Henry, T. J., Mendez, R. A., & Seitzer, P. O. 2001, AAS, 198, 4710, *New Parallax Results from Two Southern Programs*