

TRENT J. DUPUY

University of Edinburgh
Institute for Astronomy
Royal Observatory of Edinburgh
Blackford Hill
Edinburgh EH9 3HJ, UK

tdupuy@roe.ac.uk
Trent.Dupuy@ed.ac.uk
+44 0131 668 8351
<https://www.roe.ac.uk/~tdupuy/>
@TrentDupuy

Employment History

2020–present	Reader in Observational Astronomy	University of Edinburgh
2017–2020	Assistant Astronomer	Gemini Observatory, Northern Operations
2014–2017	Research Fellow	University of Texas at Austin
2013–2014	Postdoctoral Fellow	Smithsonian Astrophysical Observatory
2010–2013	Hubble Fellow	Smithsonian Astrophysical Observatory

Education

2010	Ph.D.	Astronomy; University of Hawai‘i at Mānoa Thesis: <i>Fundamental Properties of Low-Mass Stars & Brown Dwarfs</i> (adv. Michael Liu)
2006	M.S.	Astronomy; University of Hawai‘i at Mānoa
2004	B.S.	Astronomy (honors), <i>summa cum laude</i> ; University of Texas at Austin
2004	B.S.	Physics, <i>summa cum laude</i> ; University of Texas at Austin

Publication Summary

- 19 first-author refereed publications (1.3k citations)
- 106 total refereed publications (5.2k citations, *h*-index = 40)
- [Google Scholar](#), [ORCID](#), [NASA ADS](#)

Funded Projects & Awards

2022–2025	STFC Astronomy Grants Program, New Applicant	£190k (PI)
2022–2025	<i>HST</i> Coldest Brown Dwarfs’ Masses (Cycle 29–31)	\$65k (PI)
2021–2022	<i>HST</i> Resolving Ultracool Mass Benchmarks (Cycle 28)	\$87k (PI)
2018–2021	<i>HST</i> Coolest Brown Dwarf Masses (Cycles 25–27)	\$147k (PI)
2017–2018	NASA Astrophysical Data Analysis Program (ADAP)	\$146k (PI)
2016–2019	<i>HST</i> Substellar Mass-Luminosity Relation (Cycles 23–25)	\$145k (PI)
2015–2016	NASA Exoplanet Research Program (XRP)	\$216k (funds as co-I)
2015–2018	<i>HST</i> Planetary-Mass Binaries (Cycles 22–24)	\$117k (PI)
2014–2016	<i>HST</i> Education/Public Outreach programs (Cycles 20, 22)	\$80k (co-PI)
2013–2020	NASA Keck Telescope programs (various)	\$102k (PI)
2012–2013	<i>HST</i> Very Low-Mass Pleiades Binaries (Cycle 19)	\$61k (PI)
2011–2015	<i>Spitzer</i> Brown Dwarf Parallax Programs (Cycles 8, 10, 11)	\$20k (PI)
2011–2012	<i>HST</i> Probing Substellar Interiors (Cycle 18)	\$81k (PI)
2010–2013	Hubble Prize Fellowship	\$310k (PI)
2010–2013	<i>HST</i> Dynamical Masses of Brown Dwarfs (Cycles 17–19)	\$103k (science PI)

Students & Postdocs

Elise Evans	PhD student (U. of Edinburgh, 2021–present)
Theron Carmichael	Postdoctoral Research Associate (U. of Edinburgh, 2021–present)
Ray Honeysett	Master’s student (U. of Edinburgh, 2021)
Kim Miskovetz	UH Hilo undergraduate research & Vanderbilt REU; Gemini/NIRI imaging analysis (Miskovetz, Dupuy, et al., 2022, <i>RNAAS</i> , xxx, xxx)
Robert Siverd	Postdoctoral Research Fellow (Gemini; 2019–2021)
Jessica Schonhut-Stasik	Post-Masters Intern (Gemini; 2019–2020)
Logan Pearce	UT Austin undergraduate research (2017–2019, co-supervised with A. Kraus); 3 publications in <i>AJ/ApJ</i> (Pearce, Kraus, Dupuy, et al.)
Adolfo Andrew Cancino	TAURUS Undergraduate Scholar (UT Austin, 2017)
Eugenio Victor Garcia	Master’s student (Fisk-Vanderbilt Bridge, 2012–2014); <i>HST/WFC3</i> Pleiades binary survey (Garcia, Dupuy, et al., 2015, <i>ApJ</i> , 796, 119)

Teaching & Supervision

- Univ. of Edinburgh (2020–present): Senior Honours Projects; Telescope Group Projects; Physics 1B Lab Leader
- Univ. of Texas (2015–2016): guest lecturer for Observational Astronomy, Exoplanets
- Univ. of Hawai‘i (2004–2005): teaching assistant for Intro. to Astronomy (lecture & lab)

Professional Service & Team Roles

2021–present	Astronomy PhD Program Coordinator (U. of Edinburgh)
2019	LOC: IAU Symposium #357 (Hilo, Hawaii)
2019–2020	Instrument Scientist: Gemini/NIRI
2019–2020	Project Scientist: GPI 2.0; GNAO Imager; NIR ARC Detector Controller
2017–2020	Instrument Team (GNIRS, NIFS, ‘Alopeke); queue coordinator; contact scientist
2017	NSF Astronomy & Astrophysics Fellowship Program review panel
2017	NASA Astrophysics Data Analysis Program review panel
2016–present	Keck Observatory PSF-Reconstruction Facility science team
2015	SOC: Bash Symposium (Austin, Texas)
2014–2015	NASA Postdoctoral Program external reviewer
2012–2013	CfA Postdoc Council; OIR Division Seminar organizer
2012–2021	<i>Hubble Space Telescope</i> review panels (Cycles 20, 23, 29)
2012–2014	<i>Spitzer Space Telescope</i> review panels (Cycles 9, 11)
2008–present	Referee for <i>A&A</i> , <i>ApJ</i> , <i>ApJL</i> , <i>AJ</i> , <i>MNRAS</i> , <i>Science</i>

Invited / Plenary Talks

2019 Jun	<i>EWASS Symposium S12: Knowns and Unknowns About Brown Dwarfs</i>
2019 May	<i>12th CFHT Users’ Meeting</i>
2017 Jan	<i>229th AAS Special Session: Keck & NASA</i>
2016 Jun	<i>Cool Stars 19</i> plenary
2014 Jun	<i>Cool Stars 18</i> plenary
2012 Oct	<i>50 Years of Brown Dwarfs</i>
2010 Aug	<i>Cool Stars 16</i> plenary
2009 Jun	<i>214th AAS Special Session: Science with Adaptive Optics</i>

Colloquia, Contributed Talks, & Seminars

- 2021 Nov Colloquium: Imperial College London
2021 May Colloquium: University of Hertfordshire
2021 Apr *Scottish Exoplanet & Brown Dwarf Meeting #11*
2020 Sep KAPA Annual Science Meeting
2019 Oct *IAU Symposium 357: White Dwarfs*
2019 Aug Royal Observatory, Edinburgh
2019 Jul Other Worlds Lab, Summer Workshop
2019 Jun Kūkākūkā, W. M. Keck Observatory
2019 Feb Institute for Astronomy, University of Hawai'i
2018 Jan AAS Meeting #231
2017 Oct *BDEXOCON II*
2017 Oct Center for Adaptive Optics (CfAO) Fall Science Retreat
2017 Sep *Ages²: Taking Stellar Ages to the Next Power*
2017 Jul Other Worlds Lab, Summer Workshop
2017 Mar *Formation and Dynamical Evolution of Exoplanets*
2017 Feb Space Telescope Science Institute
2017 Jan AAS Meeting #229
2016 Oct Penn State Center for Exoplanets and Habitable Worlds
2016 Aug University of New South Wales
2016 Jun *Cool Stars 19* (splinter)
2016 Feb Lowell Observatory
2016 Jan AAS Meeting #227
2015 Dec *Extreme Solar Systems III*
2015 Sep *Keck Science Meeting*
2015 Jun Boston University
2015 May *IAU Symposium 314: Young Stars*
2014 Nov Colloquium: University of Notre Dame
2014 Oct Canada-France-Hawaii Telescope
2014 Oct *The Brown Dwarf to Exoplanet Connection*
2014 Mar Colloquium: Institute for Astronomy, University of Hawai'i
2013 Sep *Mind the Gap: Exoplanets and Brown Dwarfs*
2013 Jul Vanderbilt University
2013 May *Brown Dwarfs Come of Age*
2013 May *10th CFHT Users' Meeting*
2013 May University of Washington, Seattle
2013 Apr American Museum of Natural History
2013 Mar *Hubble Fellows Symposium*
2013 Feb Max-Planck-Institut für Astronomie
2013 Feb CfA Institute for Theory and Computation Luncheon
2013 Jan AAS Meeting #221
2012 Dec Carnegie Institute of Washington, Dept. of Terrestrial Magnetism
2012 Nov Colloquium: University of Toledo
2012 Oct Max-Planck-Institut für Astronomie
2012 Sep Caltech Astronomy Tea Talk
2012 Jun *Cool Stars 17* (splinter)
2012 May University of New South Wales, Dept. of Astrophysics and Optics

2012 Apr	Macquarie University, Dept. of Astrophysics and Astrophotonics
2012 Mar	<i>Swinburne Keck Science Workshop</i>
2012 Mar	<i>Hubble Fellows Symposium</i>
2012 Jan	University of North Texas
2011 Nov	Colloquium: Université de Montréal
2011 Oct	<i>Formation of Very Low Mass Stars and Brown Dwarfs</i>
2011 Oct	Colloquium: Wesleyan University
2011 Sep	Universidad de Chile
2011 Mar	<i>Hubble & Spitzer Fellows Symposium</i>
2010 Nov	Vanderbilt University
2010 Nov	<i>9th CFHT Users' Meeting</i>
2010 Oct	<i>In the Spirit of Lyot</i>
2010 Oct	<i>Origin of Stellar Masses</i>
2009 Sep	Canada-France-Hawaii Telescope
2009 Sep	American Museum of Natural History
2009 Sep	Harvard-Smithsonian Center for Astrophysics, SSP Seminar
2009 Sep	<i>Keck Science Meeting</i>
2009 Aug	<i>IAU XXVII Special Session on Young Stars, Brown Dwarfs, and Disks</i>
2009 Jul	<i>New Technology for Probing the Diversity of Brown Dwarfs and Exoplanets</i>
2009 Jun	University of Texas at Austin
2009 Apr	<i>European Week of Astronomy & Space Science</i>
2008 Oct	<i>IAU Symposium 258: The Ages of Stars</i>
2008 Oct	Carnegie Institute of Washington, Dept. of Terrestrial Magnetism
2008 Sep	<i>Keck Science Meeting</i>
2008 Jul	<i>Cool Stars 15 (splinter)</i>

Public Outreach & Educational Presentations

2021 Sep	ROE Open Days (online), "Rogue Planets"
2021 Apr	DFW Kids Community Group (online), "Planets: Here & Beyond"
2019 Mar	Journey Through the Universe (Hilo, HI)
2017 Oct	Astronomy on Tap (Hilo, HI), "How Adaptive Optics Changed Astronomy"
2017 Jul	Astronomy on Tap (Austin, TX), "Adaptive Optics: Secret Military Tech"
2016 Jul	McDonald Obs. Teacher Workshop (online), "Exoplanets & Our Solar System"
2016 Feb	Astronomy on Tap (Austin, TX), "Rogue Planets"
2015 Apr	Shreveport-Bossier Astronomical Society (Shreveport, LA), Brown Dwarfs
2014 Sep	UT Austin Astronomy Students Association (Austin, TX), Brown Dwarfs
2014 Jan	Harvard-Smithsonian Observatory Nights (Cambridge, MA), " Cosmic Orphans "
2013 Jul	Dyer Observatory Science Camp (Nashville, TN), "Planets: Here & Beyond"
2006 Dec	Friends of Hawai'i Astronomy Lecture (Honolulu, HI), Master's thesis

Refereed Publications

FIRST-AUTHOR

19. “Limits on the mass and initial entropy of 51 Eri b from Gaia EDR3 astrometry.” Dupuy, T. J., Brandt, G. M., & Brandt, T. D. 2022, *MNRAS*, 509, 4411
18. “WISE J072003.20–084651.2B Is A Massive T Dwarf.” Dupuy, T. J., Liu, M. C., Best, W. M. J., et al. (21 more). 2019, *AJ*, 158, 174
17. “A Model-Independent Mass and Moderate Eccentricity for β Pic b.” Dupuy, T. J., Brandt, T. D., Kratter, K. M., Bowler, B. P. 2019, *ApJ Letters*, 871, 4
16. “The Hawaii Infrared Parallax Program. III. 2MASS J0249–0557 c: A Wide Planetary-mass Companion to a Low-mass Binary in the β Pic Moving Group.” Dupuy, T. J., Liu, M. C., Allers, K. N., Biller, B. A., Kratter, K. M., Mann, A. W., Shkolnik, E. L., Kraus, A. L., Best, W. M. J. 2018, *AJ*, 156, 57
15. “Individual Dynamical Masses of Ultracool Dwarfs.” Dupuy, T. J. & Liu, M. C. 2017, *ApJ Supplement*, 231, 15
14. “High-Precision Radio and Infrared Astrometry of LSPM J1314+1320AB - II: Testing Pre–Main-Sequence Models at the Lithium Depletion Boundary with Dynamical Masses.” Dupuy, T. J., Forbrich, J., Rizzuto, A., Mann, A. W., Aller, K., Liu, M. C., Kraus, A. L., Berger, E. 2016, *ApJ*, 827, 23
13. “Orbital Architectures of Planet-Hosting Binaries: I. Forming Five Small Planets in the Truncated Disk of Kepler-444A.” Dupuy, T. J., Kratter, K. M., Kraus, A. L., Isaacson, H., Mann, A. W., Ireland, M. J., Howard, A. W., & Huber, D. 2016, *ApJ*, 817, 80
12. “The Mass–Luminosity Relation in the L/T Transition: Individual Dynamical Masses for the New *J*-Band Flux Reversal Binary SDSS J105213.51+442255.7AB.” Dupuy, T. J., Liu, M. C., Leggett, S. K., Ireland, M. J., Chiu, K., & Golimowski, D. A. 2015, *ApJ*, 805, 56
11. “Discovery of a Low-Luminosity, Tight Substellar Binary at the T/Y Transition.” Dupuy, T. J., Liu, M. C., & Leggett, S. K. 2015, *ApJ*, 803, 102
10. “New Evidence for a Substellar Luminosity Problem: Dynamical Mass for the Brown Dwarf Binary Gl 417BC.” Dupuy, T. J., Liu, M. C., & Ireland, M. J. 2014, *ApJ*, 790, 133
9. “Distances, Luminosities, and Temperatures of the Coldest Known Substellar Objects.” Dupuy, T. J. & Kraus, A. L. 2013, *Science*, 341, 1492
8. “Multiplicity of cool dwarfs.” Dupuy, T. J. et al. (14 co-authors). 2013, *Astronomische Nachrichten*, 334, 36 (*Cool Stars 17* splinter session proceedings)
7. “The Hawaii Infrared Parallax Program. I. Ultracool Binaries and the L/T Transition.” Dupuy, T. J. & Liu, M. C. 2012, *ApJ Supplement*, 201, 19
6. “On the Distribution of Orbital Eccentricities for Very Low-mass Binaries.” Dupuy, T. J. & Liu, M. C. 2011, *ApJ*, 733, 122

5. “Studying the Physical Diversity of Late-M Dwarfs with Dynamical Masses.” Dupuy, T. J., Liu, M. C., Bowler, B. P., Cushing, M. C., Helling, Ch., Witte, S., Hauschildt, P. 2010, *ApJ*, 721, 1725
4. “Dynamical Mass of the M8+M8 Binary 2MASS J22062280–2047058AB.” Dupuy, T. J., Liu, M. C., & Bowler, B. P. 2009, *ApJ*, 706, 328
3. “Detectability of Transiting Jupiters and Low-Mass Eclipsing Binaries in Sparsely Sampled Pan-STARRS-1 Data.” Dupuy, T. J. & Liu, M. C. 2009, *ApJ*, 704, 1519
2. “Keck Laser Guide Star Adaptive Optics Monitoring of the M8+L7 Binary LHS 2397aAB: First Dynamical Mass Benchmark at the L/T Transition.” Dupuy, T. J., Liu, M. C., & Ireland, M. J. 2009, *ApJ*, 699, 168
1. “Dynamical Mass of the Young Substellar Benchmark Binary HD 130948BC.” Dupuy, T. J., Liu, M. C., & Ireland, M. J. 2009, *ApJ*, 692, 729

SECOND-AUTHOR / SIGNIFICANT CONTRIBUTION

36. “Improved Dynamical Masses for Six Brown Dwarf Companions Using Hipparcos and Gaia EDR3.” Brandt, G. M., **Dupuy, T. J.**, et al., (9 more). 2021, *AJ*, 162, 301
35. “orvara: An Efficient Code to Fit Orbits Using Radial Velocity, Absolute, and/or Relative Astrometry.” Brandt, T. D., **Dupuy, T. J.**, et al., (6 more). 2021, *AJ*, 162, 186
34. “The First Dynamical Mass Measurement in the HR 8799 System.” Brandt, G. M., Brandt, T. D., **Dupuy, T. J.**, et al., (2 more). 2021, *ApJ Letters*, 915, 16
33. “Precise Dynamical Masses and Orbital Fits for β Pic b and β Pic c.” Brandt, G. M., Brandt, T. D., **Dupuy, T. J.**, et al., (2 more). 2021, *AJ*, 161, 179
32. “Individual dynamical masses of DENIS J063001.4–184014AB reveal a likely young brown dwarf triple.” Sahlmann, J., **Dupuy, T. J.**, et al., (7 more). 2021, *MNRAS*, 500, 545
31. “A Dynamical Mass of 70 ± 5 Jupiter Masses for Gliese 229B, the First Imaged T Dwarf.” Brandt, T. D., **Dupuy, T. J.**, et al., (5 more). 2019, *ApJ*, 160, 196
30. “Orbital Parameter Determination for Wide Stellar Binary Systems in the Age of Gaia.” Pearce, L. A., Kraus, A. L., **Dupuy, T. J.**, et al., (4 more). 2019, *AJ*, 894, 115
29. “Dynamical Masses of Young Stars II: Young Taurus Binaries Hubble 4, FF Tau, and HP Tau/G3.” Rizzuto, A. C., **Dupuy, T. J.**, Ireland, M. J., Kraus, A. L. 2019, *ApJ*, 889, 175
28. “Precise Dynamical Masses of Directly Imaged Companions from Relative Astrometry, Radial Velocities, and Hipparcos–Gaia DR2 Accelerations.” Brandt, T. D., **Dupuy, T. J.**, & Bowler, B. P. 2019, *AJ*, 158, 140
27. “3.8 μ m Imaging of 400–600 K Brown Dwarfs and Orbital Constraints for WISEP J0458 53.90+643452.6AB.” Leggett, S. K., **Dupuy, T. J.**, et al., (11 more). 2019, *ApJ*, 882, 117

26. “Orbital Motion of the Wide Planetary-mass Companion GSC 6214-210 b: No Evidence for Dynamical Scattering.” Pearce, L. A., Kraus, A. L., **Dupuy, T. J.**, et al., (5 more). 2019, *AJ*, 157, 71
25. “How to Constrain Your M dwarf II: the mass–luminosity–metallicity relation from $0.075 M_{\odot}$ to $0.70 M_{\odot}$.” Mann, A. W., **Dupuy, T. J.**, et al., (12 more). 2019, *ApJ*, 871, 63
24. “Orbit and Dynamical Mass of the Late-T Dwarf Gl 758B.” Bowler, B. P., **Dupuy, T. J.**, et al., (12 more) 2018, *AJ*, 155, 159
23. “The Young L Dwarf 2MASS J11193254–1137466 Is a Planetary-mass Binary.” Best, W. M. J., Liu, M. C., **Dupuy, T. J.**, & Magnier, E. A. 2017, *ApJ Letters*, 843, 4
22. “CFBDSIR 2149–0403: young isolated planetary-mass object or high-metallicity low-mass brown dwarf?” Delorme, P., **Dupuy, T. J.**, et al. (11 more) 2017, *A&A*, 602, 82
21. “The Gold Standard: Accurate Stellar and Planetary Parameters for Eight Kepler M Dwarf Systems Enabled by Parallaxes.” Mann, A. W., **Dupuy, T. J.**, Muirhead, P. S., Johnson, M. C., Liu, M. C., Ansdell, M., Dalba, P. A., Swift, J. J., Hadden, S. 2017, *ApJ*, 153, 267
20. “The Hawaii Infrared Parallax Program. II. Young Ultracool Field Dwarfs.” Liu, M. C., **Dupuy, T. J.**, & Allers, K. N. 2016, *ApJ*, 833, 96
19. “High-Precision Radio and Infrared Astrometry of LSPM J1314+1320AB - I: Parallax, Proper Motions, and Limits on Planets.” Forbrich, J., **Dupuy, T. J.**, Reid, M. J., Berger, E., Rizzuto, A., Mann, A. W., Liu, M. C., Aller, K., Kraus, A. L. 2016, *ApJ*, 827, 22
18. “The Impact of Stellar Multiplicity on Planetary Systems, I: The Ruinous Influence of Close Binary Companions.” Kraus, A. L., Ireland, M. J., Huber, D., Mann, A. W., **Dupuy, T. J.** 2016, *AJ*, 152, 8
17. “Adaptive Optics imaging of VHS 1256–1257: A Low Mass Companion to a Brown Dwarf Binary System.” Stone, J. M. et al. (11 more) 2016, *ApJ Letters*, 818, 12
16. “Dynamical Masses of Young Stars I: Discordant Model Ages of Upper Scorpius.” Rizzuto, A. C., Ireland, M. J., **Dupuy, T. J.**, Kraus, A. L. 2016, *ApJ*, 817, 164
15. “On the Binary Frequency of Lowest Mass Members of the Pleiades with Hubble Space Telescope Wide Field Camera 3.” Garcia, E. V., **Dupuy, T. J.**, Allers, K. N., Liu, M. C., Deacon, N. R. 2014, *ApJ*, 796, 119
14. “The Impact of Chromospheric Activity on Observed Initial Mass Functions.” Stassun, K. G., Scholz, A., **Dupuy, T. J.**, Kratter, K. M. 2014, *ApJ*, 796, 119
13. “The Binary White Dwarf LHS 3236.” Harris, H. et al. (15 more) 2013, *ApJ*, 779, 21
12. “The Extremely Red, Young L Dwarf PSO J318.5338–22.8603: A Free-floating Planetary-mass Analog to Directly Imaged Young Gas-giant Planets.” Liu, M. C., et al. (18 more) 2013, *ApJ Letters*, 777, 20
11. “Infrared parallaxes of young field brown dwarfs and connections to directly imaged gas-giant exoplanets.” Liu, M. C., **Dupuy, T. J.**, Allers, K. N. 2013, *Astronomische Nachrichten*, 334, 85 (*Cool Stars 17* proceedings)

10. “Two Extraordinary Substellar Binaries at the T/Y Transition and the Y-Band Fluxes of the Coolest Brown Dwarfs.” Liu, M. C., **Dupuy, T. J.**, Bowler, B. P., Leggett, S. K., Best, W. M. J. 2012, *ApJ*, 758, 57
9. “An Empirical Correction for Activity Effects on the Temperatures, Radii, and Estimated Masses of Low-Mass Stars and Brown Dwarfs.” Stassun, K. G., Kratter, K. M., Scholz, A., **Dupuy, T. J.**, 2012, *ApJ*, 756, 47
8. “A Search for High Proper Motion T Dwarfs with PAN-STARRS1 + 2MASS + WISE.” Liu, M. C. et al. (16 more) 2011, *ApJ Letters*, 740, 32
7. “CFBDSIR J1458+1013B: A Very Cold ($>T_{10}$) Brown Dwarf in a Binary System.” Liu, M. C., Delorme, P., **Dupuy, T. J.**, Bowler, B. P., Albert, L., Artigau, E., Reylé, C., Forveille, T., Delfosse, X. 2011, *ApJ*, 740, 108
6. “Near-Infrared Spectroscopy of the Extrasolar Planet HR 8799 b.” Bowler, B. P., Liu, M. C., **Dupuy, T. J.**, & Cushing, M. C. 2010, *ApJ*, 723, 850
5. “Discovery of a Highly Unequal-mass Binary T Dwarf with Keck Laser Guide Star Adaptive Optics: A Coequality Test of Substellar Theoretical Models and Effective Temperatures.” Liu, M. C., **Dupuy, T. J.**, & Leggett, S. K. 2010, *ApJ*, 722, 311
4. “The Gemini NICI Planet-Finding Campaign: Discovery of a Close Substellar Companion to the Young Debris Disk Star PZ Tel.” Biller, B. et al. (26 more) 2010, *ApJ Letters*, 720, 82
3. “SDSS J141624.08+134826.7: A Nearby Blue L Dwarf From the Sloan Digital Sky Survey.” Bowler, B. P., Liu, M. C., & **Dupuy, T. J.** 2010, *ApJ*, 710, 45
2. “Keck Laser Guide Star Adaptive Optics Monitoring of 2MASS J15344984–2952274AB: First Dynamical Mass Determination of a Binary T Dwarf.” Liu, M. C., **Dupuy, T. J.**, & Ireland, M. J. 2008, *ApJ*, 689, 436
1. “Cluster Mass Functions in the Large and Small Magellanic Clouds: Fading and Size-of-Sample Effects.” Hunter, D. A., Elmegreen, B. G., **Dupuy, T. J.**, & Mortonson, M. 2003, *AJ*, 126, 1836

OTHER REFEREED PUBLICATIONS

51. “Precise Masses and Orbits for Nine Radial-velocity Exoplanets.” Li, Y., et al. (8 more) 2021, *AJ*, 162, 266
50. “htof: A New Open-source Tool for Analyzing Hipparcos, Gaia, and Future Astrometric Missions.” Brandt, G. M., et al. (5 more) 2021, *AJ*, 162, 230
49. “Detection and Bulk Properties of the HR 8799 Planets with High-resolution Spectroscopy.” Wang, J. J., et al. (51 more) 2021, *AJ*, 162, 148.
48. “Measuring and Replicating the 1–20 μm Energy Distributions of the Coldest Brown Dwarfs: Rotating, Turbulent, and Nonadiabatic Atmospheres.” Leggett, S. K., et al. (9 more) 2021, *ApJ*, 918, 11.

47. “The Second Discovery from the COCONUTS Program: A Cold Wide-orbit Exoplanet around a Young Field M Dwarf at 10.9 pc.” Zhang, Z., et al. (5 more) 2021, *ApJ Letters*, 916, 11
46. “The McDonald Accelerating Stars Survey (MASS): Discovery of a Long-period Substellar Companion Orbiting the Old Solar Analog HD 47127.” Bowler, B. P., et al. (14 more) 2021, *ApJ Letters*, 913, 26
45. “The Hawaii Infrared Parallax Program. V. New T-dwarf Members and Candidate Members of Nearby Young Moving Groups.” Zhang, Z., et al. (4 more) 2021, *ApJ*, 911, 7
44. “Boyajian’s Star B: The Co-moving Companion to KIC 8462852 A.” Pearce, L. A., Kraus, A. L., **Dupuy, T. J.**, et al. (2 more) 2021, *ApJ*, 909, 216
43. “The McDonald Accelerating Stars Survey (MASS): White Dwarf Companions Accelerating the Sun-like Stars 12 Psc and HD 159062.” Bowler, B. P., et al. (9 more) 2021, *AJ*, 161, 106
42. “Giant Outer Transiting Exoplanet Mass (GOT ’EM) Survey. I. Confirmation of an Eccentric, Cool Jupiter with an Interior Earth-sized Planet Orbiting Kepler-1514.” Dalba, P. A., et al. (11 more) 2021, *AJ*, 161, 103
41. “A Volume-limited Sample of Ultracool Dwarfs. I. Construction, Space Density, and a Gap in the L/T Transition.” Best, W. M. J., Liu, M. C., Magnier, E. A., & **Dupuy, T. J.** 2021, *AJ*, 161, 42
40. “A Wide Planetary-mass Companion to a Young Low-mass Brown Dwarf in Ophiuchus.” Fontanive, C., et al. (8 more) 2020, *ApJ Letters*, 905, 14
39. “SCEXAO/CHARIS Direct Imaging Discovery of a 20-au Separation, Low-mass Ratio Brown Dwarf Companion to an Accelerating Sun-like Star.” Currie, T., et al. (29 more) 2020, *ApJ Letters*, 904, 25
38. “Direct Radio Discovery of a Cold Brown Dwarf.” Vedantham, H. K., et al. (11 more) 2020, *ApJ Letters*, 903, 33
37. “Dynamical Masses for the Pleiades Binary System HII-2147.” Torres, G., et al. (5 more) 2020, *ApJ*, 898, 2
36. “Spitzer Variability Properties of Low-gravity L Dwarfs.” Vos, J. M., et al. (19 more) 2020, *AJ*, 160, 38
35. “The Hawaii Infrared Parallax Program. IV. A Comprehensive Parallax Survey of L0-T8 Dwarfs with UKIRT.” Best, W. M. J., Liu, M. C., Magnier, E. A., & **Dupuy, T. J.**, 2020, *AJ*, 159, 257
34. “A Search for Intermediate Separation Low Mass Binaries in the Orion Nebula Cluster.” De Furio, M., Reiter, M., Meyer, M., Greenbaum, A., **Dupuy, T. J.**, & Kraus, A. 2019, *ApJ*, 886, 95
33. “A Super-Earth and Sub-Neptune Transiting the Late-type M Dwarf LP 791-18.” Crossfield, I. J. M., et al. (59 more) 2019, *ApJ Letters*, 883, 16

32. “A Search for Variability in Exoplanet Analogues and Low-Gravity Brown Dwarfs.” Vos, J. M., et al. (19 more) 2018, *MNRAS*, 483, 480
31. “Variability of the lowest mass objects in the AB Doradus moving group.” Vos, J. M., Allers, K. N., Biller, B. A., Liu, M. C., **Dupuy, T. J.**, Gallimore, J. F., Adenuga, I. J., & Best, W. M. J. 2018, *MNRAS*, 474, 1041
30. “Simultaneous Multiwavelength Variability Characterization of the Free-floating Planetary-mass Object PSO J318.5–22.” Biller, B. A., et al. (17 more) 2018, *AJ*, 155, 95
29. “Three’s Company: An Additional Non-transiting Super-Earth in the Bright HD 3167 System, and Masses for All Three Planets.” Christiansen, J. L., et al. (57 more) 2017, *AJ*, 154, 122
28. “Identification of partially resolved binaries in Pan-STARRS 1 data.” Deacon, N. R., et al. (11 more) 2017, *MNRAS*, 468, 3499
27. “Testing the Binary Trigger Hypothesis in FUors.” Green, J. D., Kraus, A. L.; Rizzuto, A. C., Ireland, M. J., **Dupuy, T. J.**, Mann, A. W., & Kuruwita, R. 2016, *ApJ*, 830, 29
26. “Planet Hunters X. KIC 8462852 - Where’s the Flux?” Boyajian, T. S., et al. (28 more) 2016, *MNRAS*, 457, 3988
25. “The Radial and Rotational Velocities of PSO J318.5338–22.8603, a Newly Confirmed Planetary-Mass Member of the *beta* Pictoris Moving Group.” Allers, K. N., Gallimore, J. F., Liu, M. C., & **Dupuy, T. J.** 2016, *ApJ*, 819, 133
24. “Variability in a Young, L/T Transition Planetary-mass Object.” Biller, B. A., et al. (17 more) 2015, *ApJ*, 813, 23
23. “Planets Around Low-mass Stars (PALMS). V. Age-dating Low-mass Companions to Members and Interlopers of Young Moving Groups.” Bowler, B. P., et al. (24 more) 2015, *ApJ*, 806, 62
22. “Wide Cool and Ultracool Companions to Nearby Stars from Pan-STARRS 1.” Deacon, N. R., et al. (20 more) 2014, *ApJ*, 792, 119
21. “The Rise of SN 2014J in the Nearby Galaxy M82.” Goobar, A., et al. (33 more) 2014, *ApJ*, 784, 12
20. “Three Wide Planetary-Mass Companions to FW Tau, ROXs 12, and ROXs 42B.” Kraus, A. L., Ireland, M. J., Cieza, L. A., Hinkley, S., **Dupuy, T. J.**, Bowler, B. P., & Liu, M. C. 2014, *ApJ*, 781, 20
19. “Resolved Spectroscopy of the T8.5 and Y0-0.5 Binary WISEPC J121756.91+162640.2AB.” Leggett, S. K., Liu, M. L., **Dupuy, T. J.**, Morley, C. V., Marley, M. S., & Saumon, D. 2014, *ApJ*, 780, 62
18. “Discovery of a Visual T-Dwarf Triple System and Binarity at the L/T Transition.” Radigan, J., Jayawardhana, R., Lafrenière, **Dupuy, T. J.**, Liu, M. C., & Scholz, A. 2013, *ApJ*, 778, 36

17. “A Search for L/T Transition Dwarfs With Pan-STARRS1 and WISE: Discovery of Seven Nearby Objects Including Two Candidate Spectroscopic Variables.” Best, W. M. J. et al. (15 more) 2013, *ApJ*, 777, 84
16. “Planets around Low-mass Stars. III. A Young Dusty L Dwarf Companion at the Deuterium-burning Limit.” Bowler, B. P., Liu, M. C., Shkolnik, E. L., & **Dupuy, T. J.** 2013, *ApJ*, 774, 55
15. “76 T dwarfs from the UKIDSS LAS: benchmarks, kinematics and an updated space density.” Burningham, B. et al. (36 more) 2013, *MNRAS*, 433, 457
14. “Characteristics and large bulk density of the C-type main-belt triple asteroid (93) Minerva.” Marchis, F. et al. (13 more) 2013, *Icarus*, 224, 178
13. “The Afterglow and ULIRG Host Galaxy of the Dark Short GRB 120804A.” Berger, E. et al. (14 more) 2013, *ApJ*, 765, 121
12. “Furthering our knowledge of the solar neighborhood using WISE.” Cushing, M. C. et al. (9 more) 2013, *Astronomische Nachrichten*, 334, 97 (*Cool Stars 17* proceedings)
11. “Planets around Low-mass Stars (PALMS). I. A Substellar Companion to the Young M Dwarf 1RXS J235133.3+312720.” Bowler, B. P., Liu, M. C., Shkolnik, E. L., **Dupuy, T. J.**, Cieza, L. A., Kraus, A. L., & Tamura, M. 2012, *ApJ*, 753, 142
10. “Discovery of Two L and T Binaries with Wide Separations and Peculiar Photometric Properties.” Artigau, E.; Lafrenière, D., Doyon, R., Liu, M. C., **Dupuy, T. J.**, Albert, L., Gagné, J., Malo, L., & Gratadour, D. 2011, *ApJ*, 739, 48
9. “A Keck LGS AO Search for Brown Dwarf and Planetary Mass Companions to Upper Scorpius Brown Dwarfs.” Biller, B., Allers, K. N., Liu, M. C., Close, L. M., & **Dupuy, T. J.** 2011, *ApJ*, 730, 39
8. “The Gemini NICI Planet-finding Campaign: Discovery of a Substellar L Dwarf Companion to the Nearby Young M Dwarf CD-35 2722.” Wahhaj, Z. et al. (25 more) 2011, *ApJ*, 729, 139
7. “Searching for Young M Dwarfs with GALEX.” Shkolnik, E. L., Liu, M. C., Reid, I. N., **Dupuy, T. J.**, & Weinberger, A. J. 2010, *ApJ*, 727, 6
6. “Discovery of a Young L Dwarf Binary, SDSS J224953.47+004404.6AB.” Allers, K. N., Liu, M. C., **Dupuy, T. J.**, & Cushing, M. C. 2010, *ApJ*, 715, 561
5. “The Discovery of an M4+T8.5 Binary System.” Burningham, B. et al. (19 more) 2009, *MNRAS*, 395, 1237
4. “2MASS 22344161+4041387AB: A Wide, Young, Accreting, Low-mass Binary in the LkH α 233 Group.” Allers, K. N. et al. (8 more) 2009, *ApJ*, 697, 824
3. “Subtle Signatures of Multiplicity in Late-type Dwarf Spectra: The Unresolved M8.5 + T5 Binary 2MASS J03202839–0446358.” Burgasser, A. J., Liu, M. C., Ireland, M. J., Cruz, K. L., & **Dupuy, T. J.** 2008, *ApJ*, 681, 579

2. “CFBDS J005910.90–011401.3: Reaching the T-Y Brown Dwarf Transition?” Delorme, P. et al. (11 more) 2008, *A&A*, 482, 961
1. “Four Faint T Dwarfs from the UKIRT Infrared Deep Sky Survey Southern Stripe.” Chiu, K. et al. (8 more) 2008, *MNRAS*, 385, L53

Conference Proceedings, White Papers & Research Notes

FIRST-AUTHOR

6. “The Parallax of VHS J1256–1257 from CFHT and Pan-STARRS-1.” Dupuy, T. J., et al. (8 more) 2020, *Research Notes of the AAS*, 4, 54
5. “Establishing an Empirical Substellar Sequence to Planetary Masses.” Dupuy, T. J., et al. (7 more) 2019, *Astro2020: Decadal Survey on Astronomy and Astrophysics*, Bulletin of the American Astronomical Society, 51, 469
4. “Testing Theory with Dynamical Masses and Orbits of Ultracool Binaries.” Dupuy, T. J., Liu, M. C., & Ireland, M. J. 2011, *16th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun*, ASP Conf. Ser., 448, 111
3. “Testing Substellar Models with Dynamical Mass Measurements.” Dupuy, T. J., Liu, M. C., & Ireland, M. J. 2011, *New Technologies for Probing the Diversity of Brown Dwarfs and Exoplanets*, EPJ Web of Conf., 16, 04004
2. “Testing Models with Brown Dwarf Binaries.” Dupuy, T. J. & Liu, M. C. 2010, *IAU XXVII General Assembly, Special Session 7: Young Stars, Brown Dwarfs, and Protoplanetary Disks*, Highlights of Astronomy, 15, 758.
1. “Confronting Substellar Theoretical Models with Stellar Ages.” Dupuy, T. J., Liu, M. C., & Ireland, M. J. 2009, *The Ages of Stars, IAU Symposium*, 258, 337

CO-AUTHOR

14. “Review of PSF reconstruction methods and application to post-processing.” Beltramo-Martin, O., et al. (13 more) 2020, *Proceedings of the SPIE*, 11448, 0A
13. “GNAO: an MCAO facility for Gemini North.” Sivo, G., et al. (48 more) 2020, *Proceedings of the SPIE*, 11203, 0N
12. “The Early Evolution of Stars and Exoplanet Systems: Exploring and Exploiting Nearby, Young Stars.” Kastner, J., et al. (14 more) 2019, *Astro2020: Decadal Survey on Astronomy and Astrophysics*, Bulletin of the American Astronomical Society, 51, 294
11. “Substellar Multiplicity Throughout the Ages.” Bardalez Gagliuffi, D., et al. (13 more) 2019, *Astro2020: Decadal Survey on Astronomy and Astrophysics*, Bulletin of the American Astronomical Society, 51, 285
10. “Realizing the Promise of High-Contrast Imaging: More Than 100 Gas-Giant Planets with Masses, Orbits, and Spectra Enabled by Gaia+WFIRST Astrometry.” Brandt, T., et al. (31 more) 2019, *Astro2020: Decadal Survey on Astronomy and Astrophysics*, Bulletin of the American Astronomical Society, 51, 269
9. “The Need for Infrared Astrometry of Brown Dwarfs in the Post-Gaia Era.” Kirkpatrick, J. D., et al. (11 more) 2019, *Astro2020: Decadal Survey on Astronomy and Astrophysics*, Bulletin of the American Astronomical Society, 51, 105

8. “Discovery of Cold Brown Dwarfs or Free-Floating Giant Planets Close to the Sun.” Leggett, S. K., et al. (11 more) 2019, *Astro2020: Decadal Survey on Astronomy and Astrophysics*, Bulletin of the American Astronomical Society, 51, 95
7. “Status of point spread function determination for Keck adaptive optics.” Ragland, S., **Dupuy, T. J.**, et al., (14 more) 2018, *Proceedings of the SPIE*, 10703, 1J
6. “What Do Young Brown Dwarfs Tell Us About Exoplanets?” Allers, K. N., Liu, M. C., & **Dupuy, T. J.** 2016, *Young Stars & Planets Near the Sun, IAU Symposium*, 314, 226
5. “Astrometric Orbits and Masses for Three Low-Mass Binaries.” Harris, H. C., Dahn, C. C., & **Dupuy, T. J.** 2015, *18th Cambridge Workshop on Cool Stars, Stellar Systems, & the Sun*
4. “Constraining the Evolution of Brown Dwarf Binarity as a Function of Age: Keck LGS AO Search for Brown Dwarf and Planetary-Mass Companions to Upper Sco Brown Dwarfs.” Biller, B., Allers, K. N., Liu, M. C., Close, L. M., **Dupuy, T. J.** 2011, *16th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun*, ASP Conf. Ser., 448, 31
3. “A Detailed Picture of the (93) Minerva Triple System.” Marchis, F., Descamps, P., Dalba, P., Enriquez, J. E., Durech, J., Emery, J. P., Berthier, J., Vachier, F., Merlbourn, J., Stockton, A. N., Fassnacht, C. D., **Dupuy, T. J.** 2011, *EPSC-DPS Joint Meeting*
2. “Understanding sub-stellar populations using wide-field infrared surveys.” Pinfield, D. J. et al. (26 more) 2011, *New Technologies for Probing the Diversity of Brown Dwarfs and Exoplanets*, EPJ Web of Conf., 16, 06002
1. “Fundamental Properties of Low-mass Stars and Brown Dwarfs.” Liu, M. C. et al. (9 more) 2009, *15th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun*, AIP Conf. Proc., 1094, 258

Posters (first-author only) and Circulars

22. “Low Mutual Inclinations Between Planetary and Stellar Orbits.” Dupuy, T. J., Kraus, A. L., Kratter, K. M., Rizzuto, A., Prato, L., Mann, A. W., Ireland, M. J., Huber, D. poster at *SUPA Cormack Astronomy Meeting 2021* (hybrid online & Edinburgh)
21. “Planetary-Stellar Orbit Alignment in Binary Systems.” Dupuy, T. J., Kraus, A. L., Kratter, K. M., Rizzuto, A., Mann, A. W., Ireland, M. J., Huber, D. poster at *Extreme Solar Systems IV* (Reykjavik, Iceland)
20. “Dynamical Masses of Cool Stars & Brown Dwarfs.” Dupuy, T. J., Mann, A. W., Liu, M. C., Kraus, A. L., Ireland, M. poster at *Cool Stars 20* (Boston, MA)
19. “The Orbital Alignment of Planets in Binaries.” Dupuy, T. J., Rizzuto, A., Kraus, A. L., Kratter, K. M., Mann, A. W., Ireland, M. J., Prato, L., Huber, D. poster at *SPF2: Star and Planet Formation in the Southwest* (Biosphere2, AZ)
18. “Individual Dynamical Masses of Ultracool Dwarfs.” Dupuy, T. J., Liu, M. C. poster at *AAS Meeting #230* (Austin, TX)
17. “Testing Substellar Evolutionary Models with Dynamical Masses.” Dupuy, T. J., Liu, M. C., & Ireland, M. J. poster at *In the Spirit of Lyot* (Montreal, QB)
16. “The Orbital Architectures of Planet-Hosting Binary Systems.” Dupuy, T. J., Kraus, A. L., Ireland, M. J., Mann, A., Huber, D. poster at *AAS Meeting #225* (Seattle, WA)

15. “Near-IR Adaptive Optics Localization of PSN J09554214+6940260.” Tendulkar, S. P., Liu, M. C., Dupuy, T. J., Ca, Y. *The Astronomer’s Telegram*, #5789
14. “New Evidence for a Substellar Luminosity Problem.” Dupuy, T. J., Liu, M. C., & Ireland, M. J. poster at *AAS Meeting #223* (National Harbor, MD)
13. “Warm Spitzer Parallaxes for the Y Dwarfs.” Dupuy, T. J., Kraus, A. L., Liu, M. C. poster at *2013 AAS Meeting #221* (Long Beach, CA)
12. “New Probes of Substellar Atmospheres with High-Precision Infrared Parallaxes.” Dupuy, T. J., Liu, M. C., Allers, K. N. poster at *Opacities in Cool Stars and Exoplanets*, Jul. 2012 (Windsor Great Park, UK)
11. “The CFHT Infrared Astrometry Program: High-Precision Parallaxes for Ultracool Dwarfs.” Dupuy, T. J. & Liu, M. C. poster at *2012 AAS Meeting #219* (Austin, TX)
10. “Eccentricities of Substellar and Very Low-Mass Binaries: Probing the Angular Momentum of Formation.” Dupuy, T. J. & Liu, M. C. poster presented at the *Origins of Solar Systems* Gordon Research Conference, Jul. 2011 (Mt. Holyoke, MA)
9. “Testing Models with Brown Dwarf Binaries.” Dupuy, T. J., Liu, M. C., Ireland, M. J. poster at *2010 AAS Meeting #215* (Washington, DC)
8. “Occultations of the (93) Minerva System.” Marchis, F., et al. (8 authors) *Central Bureau for Astronomical Telegrams* #1986
7. “Preliminary Infrared Parallaxes for Ultracool Binaries.” Dupuy, T. J., Liu, M. C. poster at *2009 AAS Meeting #214* (Pasadena, CA)
6. “Preliminary Infrared Parallaxes for Ultracool Binaries.” Dupuy, T. J., Liu, M. C. poster at *2009 AAS Meeting #213* (Long Beach, CA)
5. “Dynamical Mass of the Young Benchmark Substellar Binary HD 130948BC.” Dupuy, T. J., Liu, M. C., & Ireland, M. J. poster *AAS Meeting #212* (St. Louis, MO)
4. “Estimating The Orbital Period Of Ultracool Visual Binaries Using Only Two Observations.” Dupuy, T. J. & Liu, M. C. poster at *2008 AAS Meeting #211* (Austin, TX)
3. “Detecting Transiting Planets Around M Dwarfs Using Pan-STARRS-1.” Dupuy, T. J. & Liu, M. C. poster at the *Cool Stars 14*, Nov. 2006 (Pasadena, CA)
2. “Identifying T Tauri Stars Using Bandpass Photometry.” Dupuy, T. J., Reipurth, B., & Bally, J. poster at *2004 AAS Meeting #203* (Atlanta, GA)
1. “The Compact Cluster Population of the Large Magellanic Cloud.” Dupuy, T. J. & Hunter, D. A. poster at *2003 AAS Meeting #201* (Seattle, WA)