Jacqueline K Faherty
Curriculum Vitae

American Museum of Natural History
Department of Astrophysics
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Education

Stony Brook University
M.A Physics, 2006
Ph.D. Physics & Astronomy, 2010
Thesis Advisors: A. Burgasser (UCSD), M. Shara (AMNH), F. Walter (SBU)

University of Notre Dame
B.S. Physics , 2001

Honors and Awards

Student Commencement Speaker at Stony Brook University's PhD Convocation, 2011
Stony Brook President's Award for Distinguished Doctoral Students, 2011
Astronomical Society of New York Graduate Dissertation Award, 2010
Teaching Materials Award of Distinction (for DTU Teachers Manual), AMNH, 2002
Outstanding Undergraduate Research Award, University of Notre Dame, 2001

Grants

Heising Simons Foundation award. Acceleration Today: Finding, Weighing, and Characterizing New Degenerate Companions to Nearby Stars (PI J. Faherty $55,000)
Heising Simons Foundation award. Dancing Degenerates: Finding benchmark brown dwarfs in Gaia DR2 and CatWISE. (PI J. Faherty $55,000)
Space Telescope Science Institute, Hubble Space Telescope Award. Backyard Worlds (PI J. Faherty $88,846)
NASA Kepler K2 GO A novel approach to age analysis for Kepler M dwarfs (PI J. Faherty $125,000)
NASA ADAP : Binaries or variables? Disentangling the signatures of blended-light atmospheres (PI D. Bardalez Gagliuffi, Admin PI J. Faherty $207,237)
Spitzer Science Center: The Young and the Restless: Revealing the Turbulent, Cloudy Nature of Young Brown Dwarfs and Exoplanets (PI J. Faherty $100,000)
NSF Collaborative Research: Applying the Spectral Inversion Technique to Exoplanet Analogs (PI J. Faherty $405,923)
TESS Cycle 2 Guest Observer Program. The rotational period relation across young moving groups (PI J. Faherty $50,000)
NASA ROSES ADAP grant 2017-ADAP17-0067 Backyard Worlds: Finding Nearby Brown Dwarfs through Citizen Science (PI M. Kuchner, Co-I J. Faherty)
NASA ROSES ADAP grant 2016 ADAP16-001N A Full Sky WISE-Selected Catalog from WISE & NEOWISE Data (PI P. Eisenhardt, Collaborator J. Faherty)
NSF AST-1614527 Understanding Substellar Atmospheres: Constraining Physical Properties and Testing Models for Brown Dwarfs and Exoplanets (PI E. Rice, Co-PI J. Faherty $565,658)
Hubble Fellowship 2013 ($374,112)
NSF AST-1313278 Collaborative Research: Deciphering Brown Dwarf Spectra: Disentangling Temperature, Age, Metallicity, Cloud Signatures (PI's K. Cruz, Co-PI J. Faherty, $354,359)
University of New South Wales (UNSW) Visiting Scientist Fellowship 2012 ($8,000)
NASA Astrophysics Data Analysis Program 2011 (PI E. Rice, Co-PI J. Faherty, $181,647)

NSF International Postdoctoral Research Fellowship Program Award, 2010 ($125,000)
AAS Rodger Doxsey Dissertation Travel Award, 2010 ($500)
AAS International Conference Travel Award, 2008, 2013 ($2000 each)
American Museum of Natural History Research Fellowship recipient, 2008 ($35,000)
Stony Brook Peter B Kahn Fellowship, 2007 ($1,500)
Northwestern REU Fellow 1999 ($8,000)

Space Based Telescope Time (select sample)

James Webb Space Telescope Early Release Science: High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST (PI S. Hinkley, Collaborator J. Faherty)
Spitzer Trigonometric Parallaxes of the Solar Neighborhood's Coldest Brown Dwarfs, Part 2 (PI Kirkpatrick, Co-I Faherty, Cycle 13-13012, 276 hrs)
The Young and the Restless: Revealing the Turbulent, Cloudy Nature of Young Brown Dwarfs and Exoplanets (PI Faherty, Cycle 10-10138, 318.2 hrs)
Mid-Infrared Variability of Our New Nearby Neighbor (PI Radigan, Co-I Faherty, Cycle 10-10158, 63.5 hrs)
A deep search for Y dwarfs to the WISE limit (PI Pinfield, Co-I Faherty, Cycle 10-10135, 52.8hrs)
Spitzer Trigonometric Parallaxes of the Solar Neighborhood's Coldest Brown Dwarfs (PI Kirkpatrick, Co-I Faherty, Cycle 9-90007K, 141.5 hrs)
Infrared Monitoring of the Nearest Low-Mass T Tauri Binary: TWA 30AB (PI Burgasser, Co-I Faherty, Cycle 9-90236B, 18.8 hrs)

Postdoctoral Experience

Hubble Fellow, Carnegie DTM — Sept. 2013 – September 2016
Washington, DC USA
Host: Alycia Weinberger

NSF Fellow, Universidad de Chile Cerro Calan — Sept. 2011 – Aug, 2013
Santiago, Chile
Host: Maria Teresa Ruiz

Research Interests

Properties of brown dwarfs and hot extrasolar planets
Kinematics, Astrometry
Star and Planet Formation
Wolf-Rayet Stars, Emission Line Stars, Planetary Nebulae
Machine Learning
Scientific Visualization of Large Datasets

First Author Refereed Publications

Total publications: 68 refereed journal (11 first author)
Total citations: 2028 (717 for first author publications)
H-Index: 26

14. WISE2150-7520AB: A very low mass, wide co-moving brown dwarf system discovered through the citizen science project Backyard Worlds: Planet 9
Faherty, Jacqueline K.; Goodman, Sam; Caselden, Dan; Colin, Guillaume; Kuchner, Marc J.; Meisner, Aaron M.; Gagne, Jonathan; Schneider, Adam C.; Gonzales, Eileen C.; Bardalez Gagliuffi, Daniella C.; Logsdon, Sarah E.; Allers, Katelyn; Burgasser, Adam J.; The Backyard Worlds Planet 9 Collaboration, 2019, ApJ, 889, 2.

13. A Late-type L Dwarf at 11 pc Hiding in the Galactic Plane Characterized Using Gaia DR2

Faherty, Jacqueline K.; Gagn, Jonathan; Burgasser, Adam J.; Mamajek, Eric E.; Gonzales, Eileen C.; Bardalez Gagliuffi, Daniella C.; Marocco, Federico, 2018, ApJ, 868, 44F.

12. Population Properties of Brown Dwarf Analogs to Exoplanets
Faherty, Jacqueline K.; Bochanski, John J.; Gagn, Jonathan; Nelson, Olivia; Coker, Kristina; Smithka, Iliya; Desir, Deion; Vasquez, Chelsea, 2016, ApJs, 225, 10F.

12. New and Known Moving Groups and Clusters Identified in a Gaia Comoving Catalog
Faherty, Jacqueline K.; Bochanski, John J.; Gagn, Jonathan; Nelson, Olivia; Coker, Kristina; Smithka, Iliya; Desir, Deion; Vasquez, Chelsea, 2018, ApJ, 863, 91F.

11. Population Properties of Brown Dwarf Analogs to Exoplanets
Faherty, Jacqueline K.; Adric R. Riedel, Kelle L. Cruz, Jonathan Gagne, Joseph C. Filippazzo, Erini Lambrides, Haley Fica, Alycia Weinberger, John R. Thorstensen, C. G. Tinney, Vivienne Baldassare, Emily Lemonier, Emily L. Rice, 2016, ApJs, 225, 10F.

10. Indications of Water Clouds in the Coldest Known Brown Dwarf
Faherty, Jacqueline K.; Tinney, Chris; Skemer, Andrew; Monson, Andrew, 2014, ApJ, 793L, 16F.

9. Cloud, Temperature, and Gravity Indications in the Spectra of the Closest Brown Dwarf Binary System
Faherty, Jacqueline K.; Beletsky, Yuri; Burgasser, Adam; Tinney, Chris; Osip, David; Simcoe, Robert, 2014, ApJ, 790, 90F.

8. Characterizing Wolf-Rayet Stars in the Near and Mid Infrared
Faherty, Jacqueline K.; Shara, Michael M.; Zurek, David; Kanarek, Graham; Moffat, Tony, 2014, AJ, 147, 115F.

7. The Hetu'u Global Network: Measuring the Distance to the Sun Using the June 5th/6th Transit of Venus
Faherty, Jacqueline K.; Rodriguez, David R.; Miller, Scott T., 2012, AER, 11a0203F.

6. 2MASSJ035523.51+113337.4: A Young, Dusty, Nearby, Isolated Brown Dwarf Resembling A Giant Exoplanet
Faherty, Jacqueline K.; Rice, Emily L.; Cruz, Kelle L.; Mamajek, Eric E.; Nunez, Alejandro; 2013, AJ, 145, 2F.

5. The Brown Dwarf Kinematics Project (BDKP). III. Parallaxes for 70 Ultracool Dwarfs.
Faherty, Jacqueline K.; Burgasser, Adam J.; Walter, Frederick M.; van der Bliek, Nicole S., Shara, Michael M.; Cruz, Kelle L.,West, Andrew A.; Vrba, Frederick J.; Anglada-Escude, Guillem; 2012, ApJ, 752, 56F.

4. Identification of a Wide, Low-Mass Multiple System Containing the Brown Dwarf 2MASS J0850359+105716
Faherty, Jacqueline K.; Burgasser, Adam J.; Bochanski, John J. ; Looper, Dagny L. ; West, Andrew A.; van der Bliek, Nicole S.; 2011, AJ, 141, 71F.

3. The Brown Dwarf Kinematics Project II. Details on Nine Wide Common Proper Motion Very Low-Mass Companions to Nearby Stars.
Faherty, Jacqueline K.; Burgasser, Adam J.; Andrew A. West; John J. Bochanski; Cruz, Kelle L.; Shara, Michael M.; Walter, Frederick M.; 2010, AJ, 139, 176F.

2. The Brown Dwarf Kinematics Project I. Proper Motions and Tangential Velocities for a Large Sample of Late-Type M, L, and T Dwarfs.
Faherty, Jacqueline K.; Burgasser, Adam J.; Cruz, Kelle L.; Shara, Michael M.; Walter, Frederick M.; Gelino, Christoper R. 2009, AJ, 137, 1F.

1. The Trigonometric Parallax of the Neutron Star Geminga
Faherty, Jacqueline K.; Walter, Frederick.; Anderson, Jay.; 2007, Astrophysics and Space Science 308, 225

Refereed Publications

78. Improved Infrared Photometry and a Preliminary Parallax Measurement for the Extremely Cold Brown Dwarf CWISEP J144606.62-231717.8
Marocco, Federico; Kirkpatrick, J. Davy; Meisner, Aaron M.; Caselden, Dan; Eisenhardt, Peter R. M.; Cushing, Michael C.; **Faherty, Jacqueline K.**; Gelino, Christopher R.; Wright, Edward L, 2020 ApJ, 888L, 19M.

77. A Reanalysis of the Fundamental Parameters and Age of TRAPPIST-1
Gonzales, Eileen C.; **Faherty, Jacqueline K.**; Gagn, Jonathan; Teske, Johanna; McWilliam, Andrew; Cruz, Kelle, 2019 ApJ, 886, 131G.

76. A Dynamical Mass of 70 ± 5 Jupiter Masses for Gliese 229B, the First Imaged T Dwarf
Brandt, Timothy D.; Dupuy, Trent J.; Bowler, Brendan P.; Bardalez Gagliuffi, Daniella C.; **Faherty, Jacqueline**; Mirek Brandt, G.; Michalik, Daniel, 2019 ApJ (submitted in referee process), arXiv191001652.

75. The Ultracool SpeXtroscopic Survey. I. Volume-limited Spectroscopic Sample and Luminosity Function of M7-L5 Ultracool Dwarfs
Bardalez Gagliuffi, Daniella C.; Burgasser, Adam J.; Schmidt, Sarah J.; Theissen, Christopher; Gagn, Jonathan; Gillon, Michael; Sahlmann, Johannes; **Faherty, Jacqueline K.**; Gelino, Christopher; Cruz, Kelle L., 2019 ApJ, 883, 205B.

74. The CatWISE Preliminary Catalog: Motions from *WISE* and *NEOWISE* Data
Eisenhardt, Peter R. M.; Marocco, Federico; Fowler, John W.; Meisner, Aaron M.; Kirkpatrick, J. Davy; Garcia, Nelson; Jarrett, Thomas H.; Koontz, Renata; Marchese, Elijah J.; Stanford, S. Adam; Caselden, Dan; Cushing, Michael C.; Cutri, Roc M.; **Faherty, Jacqueline K.**, et al., 2019 ApJ (submitted in referee process), arXiv190808902.

73. CWISEP J193518.59-154620.3: An Extremely Cold Brown Dwarf in the Solar Neighborhood Discovered with CatWISE
Marocco, Federico; Caselden, Dan; Meisner, Aaron M.; Kirkpatrick, J. Davy; Wright, Edward L.; **Faherty, Jacqueline K.**; Gelino, Christopher R.; Eisenhardt, Peter R. M.; Fowler, John W.; Cushing, Michael C., et al., 2019 ApJ, 881,17M.

72. Radial Velocities, Space Motions, and Nearby Young Moving Group Memberships of Eleven Candidate Young Brown Dwarfs
Riedel, Adric R.; DiTomasso, Victoria; Rice, Emily L.; Alam, Munazza K.; Abrahams, Ellianna; Crook, James; Cruz, Kelle L.; **Faherty, Jacqueline K.**; 2019 AJ, 157, 247.

71. Exploring the Age-dependent Properties of M and L Dwarfs Using Gaia and SDSS
Kiman, Rocio; Schmidt, Sarah J.; Angus, Ruth; Cruz, Kelle L.; **Faherty, Jacqueline K.**; Rice, Emily, 2019 AJ, 157, 231.

70. Preliminary Trigonometric Parallaxes of 184 Late-T and Y Dwarfs and an Analysis of the Field Substellar Mass Function into the Planetary Mass Regime
Kirkpatrick, J. Davy; Martin, Emily C.; Smart, Richard L.; Cayago, Alfred J.; Beichman, Charles A.; Marocco, Federico; Gelino, Christopher R.; **Faherty, Jacqueline K.**; Cushing, Michael C.; Schneider, Adam C., et al., 2019 ApJS, 240, 19K.

69. A 3 Gyr White Dwarf with Warm Dust Discovered via the Backyard Worlds: Planet 9 Citizen Science Project
Debes, John H.; Thvenot, Melina; Kuchner, Marc J.; Burgasser, Adam J.; Schneider, Adam C.; Meisner, Aaron M.; Gagn, Jonathan; **Faherty, Jacqueline K.**; Rees, Jon M.; Allen, Michaela, et al., 2019 ApJ, 872, 25.

68. A deep survey for symbiotic stars in the Magellanic Clouds - 1. Methodology and first discoveries in the SMC
Ilkiewicz, Krystian; Mikolajewska, Joanna; Shara, Michael M.; Udalski, Andrzej; Drozd, Katarzyna; **Faherty, Jacqueline K.**, 2018, ApJ, submitted and in referee process arXiv181106696.

67. Y Dwarf Trigonometric Parallaxes from the Spitzer Space Telescope
Martin, Emily C.; Kirkpatrick, J. Davy; Beichman, Charles A.; Smart, Richard L.; **Faherty, Jacqueline K.**; Gelino, Christopher R.; Cushing, Michael C.; Schneider, Adam C.; Wright, Edward L.; Lowrance, Patrick, et al., 2018 ApJ, 867, 109.

66. Volans-Carina: A New 90 Myr Old Stellar Association at 85 pc
Gagn, Jonathan; **Faherty, Jacqueline K.**; Mamajek, Eric E., et al., 2018 ApJ, 865, 136.

65. Understanding Fundamental Properties and Atmospheric Features of Subdwarfs via a Case Study of SDSS J125637.13-022452.4
Gonzales, Eileen C.; **Faherty, Jacqueline K.**; Gagn, Jonathan; Artigau, tienne; Bardalez Gagliuffi, Daniella, 2018 ApJ, 864, 100.

64. BANYAN. XIII. A First Look at Nearby Young Associations with Gaia Data Release 2
Gagn, Jonathan; **Faherty, Jacqueline K.**, 2018 ApJ, 862, 138.

63. A Young Ultramassive White Dwarf in the AB Doradus Moving Group
Gagn, Gagn, Jonathan; Fontaine, Gilles; Simon, Amlie; **Faherty, Jacqueline K.**, 2018 ApJ, 861, 13.

62. Global Climate and Atmospheric Composition of the Ultra-hot Jupiter WASP-103b from HST and Spitzer Phase Curve Observations
Kreidberg, Laura; Line, Michael R.; Parmentier, Vivien; Stevenson, Kevin B.; Louden, Tom; Bonnefoy, Mickael; **Faherty, Jacqueline K.**; Henry, Gregory W.; Williamson, Michael H.; Stassun, Keivan, et al. 2018 AJ, 156, 17.

61. New Y and T Dwarfs from WISE Identified by Methane Imaging
Tinney, C. G.; Kirkpatrick, J. Davy; **Faherty, Jacqueline K.**; Mace, Gregory N.; Cushing, Mike; Gelino, Christopher R.; Burgasser, Adam J.; Sheppard, Scott S.; Wright, Edward L. 2018 ApJS, 236, 28.

60. BANYAN. XII. New Members of Nearby Young Associations from GAIA-Tycho Data
Gagn, Jonathan; Roy-Loubier, Olivier; **Faherty, Jacqueline K.**; Doyon, Ren; Malo, Lison. 2018 ApJ, 860, 43.

59. An L Band Spectrum of the Coldest Brown Dwarf
Morley, Caroline V.; Skemer, Andrew J.; Allers, Katelyn N.; Marley, Mark. S.; **Faherty, Jacqueline K.**; Visscher, Channon; Beiler, Samuel A.; Miles, Brittany E.; Lupu, Roxana; Freedman, Richard S. et al., 2018 ApJ, 858, 97.

58. Fundamental Properties of Co-moving Stars Observed by Gaia
Bochanski, John J.; **Faherty, Jacqueline K.**; Gagn, Jonathan; Nelson, Olivia; Coker, Kristina; Smithka, Iliya; Desir, Deion; Vasquez, Chelsea., 2018 AJ, 155, 149.

57. BANYAN. XI. The BANYAN *Sigma* multivariate Bayesian algorithm to identify members of young associations within 150 pc Gagne, Jonathan; Mamajek, Eric E.; Malo, Lison; Riedel, Adric; Rodriguez, David; Lafrenie, David; **Faherty, Jacqueline K.**; Roy-Loubier, Olivier; Pueyo, Laurent; Robin, Annie C.; Doyon, Rene et al., 2018 ApJ, 856, 23G.

56. Fundamental Properties of Co-Moving Stars observed by *Gaia* Bochanski, J.; **Faherty, J. K.**; Gagne, J. et al., 2018, AJ, 155, 149B.

55. An L+T Spectral Binary with Possible AB Doradus Kinematics Bardalez Gagliuffi, Daniella C.; Gagne, Jonathan; **Faherty, Jacqueline K.**; Burgasser, Adam J., 2018, ApJ, 854..101B.

54. 2MASS J13243553+6358281 is an Early T-Type Planetary-Mass Object in the AB Doradus Moving Group Gagne, Jonathan; Allers, Katelyn N.; Theissen, Christopher A.; **Faherty, Jacqueline K.**; Bardalez Gagliuffi, Daniella C.; Artigau, Etienne, 2018, ApJ, 854L, 27G.

53. Discovery of a possible Early-T Thick-Disk Subdwarf from the AllWISE2 Motion Survey Kellogg, K.; Kirkpatrick, J. D.; Metchev, S.; Gagne, J., **Faherty, J.**, et al. ApJ, 155, 87K.

52. BANYAN. X. Discovery of a wide, low-gravity L-type companion to a fast-rotating M3 dwarf Desrochers, Marie-Eve; Artigau, Etienne; Gagne, Jonathan; Doyon, Rene; Malo, Lison; Faherty, Jacqueline K.; Lafrenire, David., 2018, ApJ, 852, 55D.

51. Proper-motion age dating of the progeny of Nova Scorpii AD 1437 Shara, M. M.; Ilkiewicz, K.; Mikolajewska, J.; Pagnotta, A.; Bode, M. F.; Crause, L. A.; Drozd, K.; **Faherty, J.**; Fuentes-Morales, I.; Grindlay, J. E.; Moffat, A. F. J.; Pretorius, M. L.; Schmidtobreick, L.; Stephenson, F. R.; Tappert, C.; Zurek, D., 2017, Nature, 548, 558S.

50. A Survey for Planetary-mass Brown Dwarfs in the Chamaeleon I Star-forming Region Esplin, T. L.; Luhman, K. L.; **Faherty, J. K.**; Mamajek, E. E.; Bochanski, J. J., 2017, AJ, 154, 46E.

49. The First Brown Dwarf Discovered by the Backyard Worlds: Planet 9 Citizen Science Project Kuchner, Marc J.; **Faherty, Jacqueline K.**; Schneider, Adam C.; Meisner, Aaron M.; Filippazzo, Joseph C.; Gagne, Jonathan; Trouille, Laura; Silverberg, Steven M.; Castro, Rosa; Fletcher, Bob; Mokaev, Khasan; Stajic, Tamara, 2017, ApJ, 841L, 19K.

48. SIMP J013656.5+093347 Is Likely a Planetary-mass Object in the Carina-Near Moving Group Gagne, Jonathan; **Faherty, Jacqueline K.**; Burgasser, Adam J.; Artigau, Etienne; Bouchard, Sandie; Albert, Loic; Lafreniere, David; Doyon, Rene; Bardalez Gagliuffi, Daniella C., 2017, ApJ, 841L, 1G.

47. LACEwING: A New Moving Group Analysis Code Riedel, Adric R.; Blunt, Sarah C.; Lambrides, Erini L.; Rice, Emily L.; Cruz, Kelle L.; **Faherty, Jacqueline K.**, 2017, AJ, 153, 95R.

46. BANYAN. IX. The Initial Mass Function and Planetary-mass Object Space Density of the TW HYA Association Gagne, Jonathan; **Faherty, Jacqueline K.**; Mamajek, Eric E.; Malo, Lison; Doyon, Rene; Filippazzo, Joseph C.; Weinberger, Alycia J.; Donaldson, Jessica K.; Lepine, Sebastien; Lafreniere, David; Artigau, Etienne; Burgasser, Adam J.; Looper, Dagny; Boucher, Anne; Beletsky, Yuri; Camnasio, Sara; Brunette, Charles; Arboit, Genevie, 2017, ApJS, 228, 18G.

45. New Parallaxes and a Convergence Analysis for the TW Hya Association Donaldson, J. K.; Weinberger, A. J.; Gagne, J.;**Faherty, J. K**.; Boss, A. P.; Keiser, S. A., 2016, ApJ, 833, 95D.

44. BANYAN. VIII. New Low-Mass Stars and Brown Dwarfs with Candidate Circumstellar Disks Boucher, Anne; Lafreniere, David; Gagne, Jonathan; Malo, Lison; **Faherty, Jacqueline K.**; Doyon, Rene; Chen, Christine H., 2016, ApJ, 833, 95D.

43. MagAO Imaging of Long-period Objects (MILO). II. A Puzzling White Dwarf around the Sun-like Star HD 11112
Rodigas, Timothy J.; Bergeron, P.; Simon, Amelie; Arriagada, Pamela; **Faherty, Jackie**; Angladа-Escude, Guillem; Mamajek, Eric E.; Weinberger, Alycia; Butler, R. Paul; Males, Jared R.; Morzinski, Katie; Close, Laird M.; Hinz, Philip M.; Bailey, Jeremy; Carter, Brad; Jenkins, James S.; Jones, Hugh; O'Toole, Simon; Tinney, C. G.; Wittenmyer, Rob; Debes, John, 2016, ApJ, 832, 50B.

42. The First Spectrum of the Coldest Brown Dwarf
Andrew J. Skemer, Caroline V. Morley, Katelyn N. Allers, Thomas R. Geballe, Mark S. Marley, Jonathan J. Fortney, **Jacqueline K. Faherty**, Gordon L. Bjoraker, Roxana Lupa, 2016, ApJ, 826L, 17S.

41. A Survey for hot Central Stars of Planetary Nebulae I. Methods and First Results
Graham C. Kanarek, Michael M. Shara, **Jacqueline K. Faherty**, David Zurek, Anthony F.J. Moffat, 2017, MNRAS, 465, 293K.

40. The nearest isolated member of the TW Hydrae Association is a giant planet analog
Kellogg, K.; Metchev, S.; Gagne, J., **Faherty**, J., 2016, ApJ, 821L, 15K.

39. The First Brown Dwarf/Planetary-Mass Object in the 32 Orionis Group
Burgasser, Adam J.; Lopez, Mike A.; Mamajek, Eric E.; Gagne, Jonathan; **Faherty, Jacqueline K.**; Tallis, Melisa; Choban, Caleb; Escala, Ivanna; Aganze, Christian, 2016, ApJ, 820, 32B.

38. Photometric brown-dwarf classification. II. A homogeneous sample of 1361 L and T dwarfs brighter than J = 17.5 with accurate spectral types
Skrzypek, N., Warren, S., **J., Faherty, J.K.**, 2016, A&A, 589A, 49S.

37. Characterization of the Very-low-mass Secondary in the GJ 660.1AB System
Aganze, Christian; Burgasser, Adam J.;**Faherty, Jacqueline K**.; Choban, Caleb; Escala, Ivanna; Lopez, Mike A.; Jin, Yuhui; Tamiya, Tomoki; Tallis, Melisa; Rockward, Willie, 2016, AJ, 151 46A.

36. Searching for Binary Y dwarfs with the Gemini Multi-Conjugate Adaptive Optics System (GeMS)
Opitz, Daniela; Tinney, C. G.; **Faherty, Jacqueline**; Sweet, Sarah; Gelino, Christopher R.; Kirkpatrick, J. Davy, 2016, ApJ, 819, 17O.

35. Discovery of a brown dwarf companion to the A3V star β Circini
Smith, L. C.; Lucas, P. W.; Contreras Peta, C.; Kurtev, R.; Marocco, F.; Jones, H. R. A.; Beamin, J. C.; Napiwotzki, R.; Borissova, J.; Burningham, B.; **Faherty, J.**; Pinfield, D. J.; Gromadzki, M.; Ivanov, V. D.; Minniti, D.; Stimson, W.; Villanueva, V., 2015, MNRAS, 454 4476S.

34. MagAO Imaging of Long-period Objects (MILO). I. A Benchmark M Dwarf Companion Exciting a Massive Planet around the Sun-like Star HD 7449
Rodigas, Timothy J.; Arriagada, Pamela; **Faherty, Jackie**; Anglada-Escude, Guillem; Kaib, Nathan; Butler, R. Paul; Shectman, Stephen; Weinberger, Alycia; Males, Jared R.; Morzinski, Katie M.; Close, Laird M.; Hinz, Philip M.; Crane, Jeffrey D.; Thompson, Ian; Teske, Johanna; Diaz, Matias; Minniti, Dante; Lopez-Morales, Mercedes; Adams, Fred C.; Boss, Alan P., 2016, ApJ, 818, 106R.

33. An ALMA survey for disks orbiting low-mass stars in the TW Hya Association
Rodriguez, David R.; van der Plas, Gerrit; Kastner, Joel H.; Schneider, Adam C.; **Faherty, Jacqueline K.**; Mardones, Diego; Mohanty, Subhanjoy; Principe, David, 2015, A&A, 582L 5R.

32. A near-infrared survey of the inner Galactic plane for Wolf-Rayet stars - III. New methods: faintest WR stars
Kanarek, G.; Shara, M.; **Faherty, J.**; Zurek, D.; Moffat, A., 2015, MNRAS, 452, 2858K.

31. Fundamental Parameters and Spectral Energy Distributions of Young and Field Age Objects with Masses Spanning the Stellar to Planetary Regime
Filippazzo, Joseph C.; Rice, Emily L.; **Faherty, Jacqueline**; Cruz, Kelle L.; Van Gordon, Mollie M.; Looper, Dagny L., 2015, ApJ, 810, 158F.

30. BANYAN. VII. A New Population of Young Substellar Candidate Members of Nearby Moving Groups from the BASS Survey
Gagne, Jonathan; **Faherty, Jacqueline K.**; Cruz, Kelle L.; Lafreniere, David; Doyon, Rene; Malo, Lison; Burgasser, Adam J.; Naud, Marie-Eve; Artigau, Etienne; Bouchard, Sandie; Gizis, John E.; Albert, Loic, 2015, ApJS, 219, 33G.

29. SDSS J111010.01+011613.1: A New Planetary-mass T Dwarf Member of the AB Doradus Moving Group; Gagne, Jonathan; Burgasser, Adam J.; **Faherty, Jacqueline K.**; Lafreniere, David; Doyon, Rene; Filippazzo, Joseph C.; Bowsher, Emily; Nicholls, Christine P., 2015, ApJ, 808L, 20G.

28. BANYAN. VI. Discovery of a Companion at the Brown Dwarf/Planet-Mass Limit to a Tucana-Horologium M Dwarf; Artigau, Etienne; Gagne, Jonathan; **Faherty, Jacqueline**; Malo, Lison; Naud, Marie-Eve; Doyon, Rene; Lafreniere, David; Beletsky, Yuri, 2015, ApJ, 806, 254A.

27. Photometric brown-dwarf classification. I. A method to identify and accurately classify large samples of brown dwarfs without spectroscopy
Skrzypek, N., Warren, S., **J., Faherty, J.K.**, Mortlock, D. J., Burgasser, A.J, Hewett, P.C , 2015,A&A, 574A, 78S.

26. The Luminosities of the Coldest Brown Dwarfs
Tinney, Cris. G.; **Faherty, Jacqueline K**.; Kirkpatrick, J. Davy; Cushing, Michael C.; Morley, Caroline, V.; Wright, Edward L., 2014, ApJ, 796, 39T .

25. WISEP J004701.06+680352.1: An intermediate surface gravity, dusty brown dwarf in the AB Dor Moving Group
John E. Gizis, Katelyn N. Allers, Michael C. Liu, Hugh C. Harris, **Jacqueline K. Faherty**, Adam J. Burgasser, J. Davy Kirkpatrick, 2015, ApJ,799, 203G.

24. High Proper Motion Objects from the UKIDSS Galactic Plane Survey
Leigh Smith,P.W. Lucas, R. Bunce, B. Burningham, H.R.A. Jones, R.L. Smart, N. Skrzypek, D. Rodriguez, **J. Faherty**, A.H. Andrei,S. Catalan, D.J. Pinfield, D. Redburn, Anthony F. J., 2014, MNRAS, 14, 1370.

23. The AllWISE Motion Survey and the Quest for Cold Subdwarfs
Kirkpatrick, J. Davy; Schneider, Adam; Fajardo-Acosta, Sergio; Gelino, Christopher R.; Mace, Gregory N.; Wright, Edward L.; Logsdon, Sarah E.; McLean, Ian S.; Cushing, Michael C.; Skrutskie, Michael F.; Eisenhardt, Peter R.; Stern, Daniel; Balokovi, Mislav; Burgasser, Adam J.; **Faherty, Jacqueline K.**; Lansbury, George B.; Rich, J. A.; Skrzypek, Nathalie; Fowler, John W.; Cutri, Roc M.; Masci, Frank J.; Conrow, Tim; Grillmair, Carl J.; McCallon, Howard L.; Beichman, Charles A.; Marsh, Kenneth A., 2014, ApJ, 783, 122K.

22. A Near-Infrared Survey of the Inner Galactic Plane for Wolf-Rayet Stars III. New Methods: faintest WR Stars
Kanarek, Graham C.; Shara, Michael M.;**Faherty, Jacqueline K.**; Zurek, David; Moffat, Anthony F. J., 2015, MNRAS, 452, 2858K.

21. A Monitoring Campaign for Luhman 16AB. I. Detection of Resolved Near-infrared Spectroscopic Variability
Burgasser, Adam J.; Gillon, Michal; **Faherty, Jacqueline K.**; Radigan, Jacqueline; Triaud, Amaury H. M. J.; Plavchan, Peter; Street, Rachel; Jehin, E.; Delrez, L.; Opitom, C., 2014, ApJ, 785, 48B.

20. The Coolest Isolated Brown Dwarf Candidate Member of TWA
Gagne, Jonathan; **Faherty, Jacqueline K.**; Cruz, Kelle; Lafreniere, David; Doyon, Rene; Malo, Lison; Artigau, Etienne, 2014, ApJ, 785L, 14G.

19. A Dusty M5 Binary in the beta Pictoris Moving Group
Rodriguez, David R.; Zuckerman, B.; **Faherty, Jacqueline K.**; Vican, Laura, 2014, A&A 567A, 20R.

18. Discovery of the Young L Dwarf WISE J1741102.78-464225.5
Schneider, Adam C.; Cushing, Michael C.; Kirkpatrick, J. Davy; Mace, Gregory N.; Gelino, Christopher R.; **Faherty, Jacqueline K**.; Fajardo-Acosta, Sergio; Sheppard, Scott S., 2013, AJ, 147, 34S.

17. Discovery of the Y1 Dwarf WISE J064723.23-623235.5
Kirkpatrick, J. Davy; Cushing, Michael C.; Gelino, Christopher R.; Beichman, Charles A.; Tinney, C. G.; **Faherty, Jacqueline K.**; Schneider, Adam; Mace, Gregory N., 2013, ApJ, 776, 128K.

16. The Kappa Andromedae System: New Constraints on the Companion Mass, System Age & Further Multiplicity
Hinkley, Sasha; Pueyo, Laurent; **Faherty, Jacqueline K.**; Oppenheimer, Ben R.; Mamajek, Eric E.; Kraus, Adam L.; Rice, Emily L.; Ireland, Michael J.; David, Trevor; Hillenbrand, Lynne A, et al., ApJ, 779, 153H.

15. The GALEX Nearby Young-Star Survey
Rodriguez, David R.; Zuckerman, B.; Kastner, Joel H.; Bessell, M. S.; **Faherty, Jacqueline K.**; Murphy, Simon J., 2013, ApJ, 774, 101R.

14. Nearby M, L, and T Dwarfs Discovered by the Wide-field Infrared Survey Explorer (WISE)
Thompson, Maggie A.; Kirkpatrick, J. Davy; Mace, Gregory N.; Cushing, Michael C.; Gelino,

Christopher R.; Griffith, Roger L.; Skrutskie, Michael F.; Eisenhardt, Peter R. M.; Wright, Edward L.; Marsh, Kenneth A, Mix, Katholeen J.; Beichman, Charles A.; **Faherty, Jacqueline K.**; Toloza, Odette; Ferrara, Jocelyn; Apodaca, Brian; McLean, Ian S.; Bloom, Joshua S, 2013, PASP, 125, 809T.

13. A WISE search for very late objects detected only in the W2-band
D. J. Pinfield, J. Gomes, A. C. Day-Jones, T. Cattermole, C. Cardoso, **J. Faherty**, M. T. Ruiz, R. Kurtev, J. R. A. Clarke, B. Burningham, L. Smith, R. Smart, P. W. Lucas, N. Lodieu, M. C. Galvez-Ortiz, J. S. Jenkins, S. Folkes, H. R. A. Jones, R. Rebolo, V. J. S. Bejar, B. Gauza, MNRAS, 437, 1009P.

12. WISE J163940.83-684738.6: A Y Dwarf identified by Methane Imaging
Tinney, Cris. G.; **Faherty, Jacqueline K**.; Kirkpatrick, J. Davy; Wright, Edward L.; Gelino, Christopher R.; Cushing, Michael C.; Griffith, Roger L.; Salter, Graeme, 2012, ApJ, 759, 60T.

11. Deep Search For Companions to Probable Young Brown Dwarfs
G. Chauvin, **J. Faherty**, A. Boccaletti, K. Cruz, A.-M. Lagrange, B. Zuckerman, M. S. Bessell, J.-L. Beuzit, M. Bonnefoy, C. Dumas, P. Lowrance, D. Mouille, and I. Song; 2012, A&A, 548A, 33C.

10. Discovery of Two Very Wide Binaries with Ultracool Companions and a New Brown Dwarf at the L/T Transition
Koraljka Muzic, Jacqueline Radigan, Ray Jayawardhana, Valentin D. Ivanov, **Jacqueline K. Faherty**, Radostin G. Kurtev, Alejandro Nunez, Henri M. J. Boffin, Olivier Hainaut, Kelle Cruz, David Jones, Stanimir Metchev, Amy Tyndall, Jura Borissova; 2012, AJ, 144, 180M.

9. Discovery of an Unusually Red L-type Brown Dwarf
John E. Gizis, **Jacqueline K. Faherty**, Michael C. Liu, Philip J. Castro, John D. Shaw, Frederick J. Vrba, Hugh C. Harris, Kimberly M. Aller, Niall R. Deacon; 2012, AJ, 144, 94G.

8. A Near-Infrared Survey of the Inner Galactic Plane for Wolf-Rayet Stars II. Going Fainter: 72 More New WR Stars Shara, Michael M.; **Faherty, Jacqueline K.**; Zurek, David; Moffat, Anthony F. J.; Gerke, Jill; Doyon, Rene; Artigau, Etienne; Drissen, Laurent; 2012, AJ, 143, 149S.

7. Low-Mass Tertiary Companions to Spectroscopic Binaries I: Common Proper Motion Survey for Wide Companions using 2MASS Allen, Peter; Burgasser, Adam J.; **Faherty, Jacqueline K.**; Kirkaptrick, Davy; 2012, AJ, 144, 62A.

6. WISEP J180026.60+013453.1: A Nearby Late L Dwarf Near the Galactic Plane
Gizis, John E.; Burgasser, Adam J.; **Faherty, Jacqueline K.**; Castro, Philip J.; Shara, Michael M.; 2011, AJ, 142, 171G.

5. A Widely Separated, Highly Occluded Companion to the Nearby Low-mass T Tauri Star TWA 30
Looper, Dagny L.; Bochanski, John J.; Burgasser, Adam J.; Mohanty, Subhanjoy; Mamajek, Eric E.; **Faherty, Jacqueline K.**, West, Andrew A.; Pitts, Mark A.; 2010, AJ, 140, 1486L.

4. The Lowest-mass Member of the β Pictoris Moving Group
Rice, Emily L,; **Faherty, Jacqueline K.**, Cruz, Kelle L.; 2010, ApJ, 715L, 165R.

3. The Enigmatic Young, Low-mass Variable TWA 30
Looper, Dagny L.; Bochanski, John J.; Mohanty, Subhanjoy; Burgasser, Adam J.; Mamajek, Eric E.; Herczeg, Gregory J.; West, Andrew A.; **Faherty, Jacqueline K.**, Rayner, John; Pitts, Mark A.; Kirkpatrick, J. Davy; 2010, ApJ, 714, 45L.

2. SpeX Spectroscopy of Unresolved Very Low-Mass Binaries. I. Identification of Seventeen Candidate Binaries Straddling the L Dwarf/T Dwarf Transition
Burgasser, Adam J.; Cruz, Kelle L.; Cushing, Michael; Gelino, Chris R.; Looper, Dagny L.; **Faherty, Jacqueline K.**; Kirkpatrick, J. Davy; Reid; I. Neill; 2010, ApJ, 710, 1142B.

1. 2MASS J06164006-6407194: The First Outer Halo L Subdwarf
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White Papers

16. IDEAS: Immersive Dome Experiences for Accelerating Science
Faherty, Jacqueline; SubbaRao, Mark; Wyatt, Ryan; Ynnerman, Anders; Tyson, Neil deGrasse; Geller, Aaron; Weber, Maria; Rosenfield, Philip; Steffen, Wolfgang; Stoeckle, Gabriel, et al. 2019BAAS...51g.212. (Astro 2020 White paper)

15. Brown Dwarfs and Directly Imaged Exoplanets in Young Associations
Faherty, Jacqueline; Allers, Katelyn; Bardalez Gagliuffi, Daniella; Burgasser, Adam J.; Gagne, Jonathan; Gizis, John; Kirkpatrick, J. Davy; Riedel, Adric; Schneider, Adam; Vos, Johanna, 2019BAAS...51c.286. (Astro 2020 White paper)

14. Protoplanetary Disk Science Enabled by Extremely Large Telescopes
Jang-Condell, Hannah; Brittain, Sean; Weinberger, Alycia; Liu, Michael; **Faherty, Jacqueline**; Bae, Jaehan; Andrews, Sean; Ansdell, Megan; Birnstiel, Til; Boss, Alan et al., 2019BAAS...51c.346. (Astro 2020 White paper)

13. The Early Evolution of Stars and Exoplanet Systems: Exploring and Exploiting Nearby, Young Stars
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12. Substellar Multiplicity Throughout the Ages
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11. The L/T Transition
Vos, Johanna; Allers, Katelyn; Apai, Daniel; Biller, Beth; Burgasser, Adam J.; **Faherty, Jacqueline**; Gagne, Jonathan; Helling, Christiane; Morley, Caroline; Radigan, Jacqueline, et al., 2019BAAS...51c.253. (Astro 2020 White paper)

10. Fundamental Physics with Brown Dwarfs: The Mass-Radius Relation
Burgasser, Adam; Baraffe, Isabelle; Browning, Matthew; Burrows, Adam; Chabrier, Gilles; Creech-Eakman, Michelle; Demory, Brice; Dieterich, Sergio; **Faherty, Jacqueline**; Huber, Daniel, et al., 2019BAAS...51c.214. (Astro 2020 White paper)

9. Searching for Exosatellites Orbiting L and T Dwarfs: Connecting Planet Formation to Moon Formation and Finding New Temperate Worlds
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8. The Need for Infrared Astrometry of Brown Dwarfs in the Post-Gaia Era
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7. Discovery of Cold Brown Dwarfs or Free-Floating Giant Planets Close to the Sun
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6. The Importance of Supporting Astronomy Education Research, Curriculum Reform, and Professional Development in Astronomy Education
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5. Making the Case for Visualization
Hurt, Robert; Wyatt, Ryan; Subbarao, Mark; Arcand, Kimberly; **Faherty, Jacqueline K.**; Lee, Janice; Lawton, Brandon, 2019BAAS...51g.252. (Astro 2020 White paper)

4. Sustaining Community-Driven Software for Astronomy in the 2020s
Tollerud, Erik; Smith, Arfon; Price-Whelan, Adrian; Cruz, Kelle; Norman, Dara; Narayan, Gautham; Mumford, Stuart; Allen, Alice; Chan, Chi-kwan; Cherinka, Brian, et al. including **Faherty, Jacqueline, K.**, 2019BAAS...51g.180T (Astro 2020 White paper)

3. Elevating the Role of Software as a Product of the Research Enterprise
Smith, Arfon; Norman, Dara; Cruz, Kelle; Desai, Vandana; Bellm, Eric; Lundgren, Britt; Economou, Frossie; Nord, Brian D.; Schafer, Chad; Narayan, Gautham et al. including **Faherty, Jacqueline, K.**, 2019BAAS...51g..52S (Astro 2020 White paper)

2. The Science Case for an Extended Spitzer Mission
Yee, Jennifer C.; Fazio, Giovanni G.; Benjamin, Robert; Kirkpatrick, J. Davy; Malkan, Matt A.; Trilling, David; Carey, Sean; Ciardi, David R.; Apai, Daniel; Ashby, M. L. N.; Ballard, Sarah; Bean, Jacob L.; Beatty, Thomas; Berta-Thompson, Zach; Capak, P.; Charbonneau, David; Chesley, Steven; Cowan, Nicolas B.; Crossfield, Ian; Cushing, Michael C.; de Wit, Julien; Deming, Drake; Dickinson, M.; Dittmann, Jason; Dragomir, Diana; Dressing, Courtney; Emery, Joshua; **Faherty, Jacqueline K.**; et al., 2017, 2017arXiv1710.04194

1. Results from the Wide-field Infrared Survey Explorer (WISE) Future Uses Session at the WISE at 5 Meeting
Faherty, Jacqueline K.; Alatalo, K.; Anderson, L. D.; Assef, Roberto J.; Bardalez Gagliuffi, Daniella C.; Barry, Megan; Benford, Dominic J.; Bilicki, Maciej; Burningham, Ben; Christian, Damian J.; Cushing, Michael C.; Eisenhardt, Peter R.; et al., 2015, 2015arXiv150501923F

Editor

1. Gaia and the Unseen, the Brown Dwarf Question. Smart, R., **Faherty, J.**, Barrado, D., Memorie della Societa' Astronomica Italiana (SAIt), 2014.

Book Chapter

1. Spectral Properties of Brown Dwarfs and Unbound Planetary-Mass Objects **Faherty, J.**, **Handbook of Exoplanets**, 2018, Springer.

Conference Proceedings

25. DCT Astrometry of Very Low-Mass Stars Skinner, Julie N.; West, Andrew A.; **Faherty, Jacqueline K.**; Muirhead, Philip S., Cool Stars 19 Proceedings (2016csss.confE..36S)

24. The Nearest Isolated Member Of The TW Hydrae Association is A Giant Planet Analog Kellogg, Kendra; Metchev, Stanimir; Gagne, Jonathan; **Faherty, Jacqueline**, Cool Stars 19 Proceedings (2016csss.confE..61K)

23. A Molecular Disk Survey of Low-Mass Stars in the TW Hya Association Rodriguez, David R.; van der Plas, Gerrit; Kastner, Joel H.; Schneider, Adam C.; **Faherty, Jacqueline K.**; Mardones, Diego; Mohanty, Subhanjoy; Principe, David, 2015, IAUS, (2016IAUS..314..207R).

22. The BANYAN All-Sky Survey for Brown Dwarf Members of Young Moving Groups
Gagne, Jonathan; Lafreniere, David; Doyon, Rene; **Faherty, Jacqueline K.**; Malo, Lison; Cruz, Kelle L.; Artigau, Etienne; Burgasser, Adam J.; Naud, Marie-Eve; Bouchard, Sandie; Gizis, John E.; Albert, Loic, 2015, IAUS, (2016IAUS..314...49G).

21. BASS-Ultracool : A Survey for Isolated Analogs of Methane Exoplanets Gagne, Jonathan; **Faherty, Jacqueline K.**; Malo, Lison; Filippazzo, Joseph C.; Burgasser, Adam J.; Artigau, Etienne; Lafreniere, David; Doyon, Rene; Bowsher, Emily; Nicholls, Christine P., 2015 Extreme Solar Systems, (2015ESS.....310419G).

20. Results from BASS, the BANYAN All-Sky Survey Gagne, Jonathan; Lafreniere, David; Doyon, Rene; **Faherty, Jacqueline**; Malo, Lison, 2014, Cool Stars 18 Proceedings, (2015csss...18..975G).

19. New Results from the GALEX Nearby Young-Star Survey Rodriguez, David R.; Zuckerman, B.; Kastner, Joel H.; Vican, Laura; Principe, David;**Faherty, Jacqueline K.**; Murphy, Simon J.; Bessell, Mike S., Cool Stars 18 Proceedings, (2015csss...18..249R)

18. New Galactic Wolf-Rayet Stars Kanarek, G.; Shara, M.; **Faherty, J.**; Zurek, D.; Moffat, A. F. J., 2015 Workshop on Wolf-Rayet Stars, (2015wrs..conf..359K).

17. Ages of Brown Dwarfs
Jacqueline K. Faherty, 2014, Gaia and the Unseen: The Brown Dwarf Question, Memorie della Societa' Astronomica Italiana (SAIt) 2014.

16. Young Brown Dwarfs at the Exoplanet Mass Boundary
Jacqueline K. Faherty, Kelle L. Cruz, Emily L. Rice, Adric Riedel, 2013, Latin America Regional IAU Meeting (LARIM), 2014RMxAC, 44, 53R.

15. The GALEX Nearby Young-Star Survey Rodriguez, D. R.; Zuckerman, B.; Kastner, J. H.; Bessell, M. S.; **Faherty, J. K.**; Murphy, S. J.; Vican, L., 2013, Latin America Regional IAU Meeting (LARIM), 2014RMxAC..44...53R.

14. Young Brown Dwarfs as Giant Exoplanet Analogs
Jacqueline K. Faherty, Kelle L. Cruz, Emily L. Rice, Adric Riedel, 2013, Fuerteventura Brown Dwarfs Come of Age, Submitted, (arXiv: 1307.1127G)

13. Bayesian analysis to identify very low-mass members of nearby young stellar kinematic groups
Gagne, Jonathan; Lafreniere, David; Doyon, Rene; Malo, Lison; **Faherty, Jacqueline**; Artigau, Etienne, 2013, Fuerteventura Brown Dwarfs Come of Age, Submitted, (arXiv: 1307.1127G)

12. Luhman 16AB: A Remarkable, Variable L/T Transition Binary 2 pc from the Sun
Burgasser, A. J.; **Faherty, J.**; Beletsky, Y.; Plavchan, P.; Gillon, M.; Radigan, J.; Jehin, E.; Delrez, L.; Opitom, C.; Morrell, N, et al., 2013, Fuerteventura Brown Dwarfs Come of Age, Submitted, (arXiv: 1307.6916B)

11. Young Brown Dwarfs at Low Spectral Resolution
Rice, Emily; Filippazzo, Joe; **Faherty, Jacqueline**; Cruz, Kelle, 2013, Protostars and Planets VI, (2013prpl.conf2K070R)

10. The GALEX Nearby Young-Star Survey
Rodriguez, David; Zuckerman, Ben; Kastner, Joel; Bessell, Mike; **Faherty, Jacqueline**; Murphy, Simon; Vican, Laura, 2013, Protostars and Planets VI, (2013prpl.conf2K096R)

9. Lessons from Brown Dwarf Science: Recognizing Signatures of Youth and Low Gravity in the Near Infrared Spectra
Cruz, Kelle; **Faherty, Jacqueline**; Rice, Emily; Riedel, Adric; Nunez, Alejandro, 2013, Protostars and Planets VI, (2013prpl.conf2G022C)

8. Young Brown dwarfs as Giant Exoplanet Analogs
Faherty, Jacqueline, K.; Cruz, Kelle; Rice, Emily; Riedel, Adric, 2013, Protostars and Planets VI, (2013prpl.conf2G024F)

7. The Kinematics of Very Low Mass Dwarfs: Splinter Session Summary
Burgasser, Adam J., **Faherty, Jacqueline K.**, Schmidt, Sarah, West, Andrew A., Zapatero Osorio, Maria Rosa, Pineda, J. Sebastian, Burningham, Ben, Nicholls, Christine, Sanderson, Robyn, Shkolnik, Evgenya, Rodriguez, David, Riedel, Adric, and Joergens, Viki. 2012, Proceedings on the 17th Cambridge Workshop on Cool Stars, Submitted.

6. Juvenile Ultracool dwarfs
Rice, Emily L., **Faherty, Jacqueline K.**, Cruz, Kelle, Barman, Travis, Looper, Dagny, Malo, Lison, Mamajek, Eric, Metchev, Stanimir, Shkolnik, Evgenya. 2010, Proceedings on the 16th Cambridge Workshop on Cool Stars, 448, 481R.

5. The Brown Dwarf Kinematics Project III. Preliminary Parallax Results
Faherty, Jacqueline K., Burgasser, Adam., Walter, Frederick., van der Bliek, Nicole S., & Shara, Michael., Cruz, Kelle L. 2010, Proceedings on the 16th Cambridge Workshop on Cool Stars, Proceedings on the 16th Cambridge Workshop on Cool Stars, 448, 1343F.

4. Proper Motions and Tangential Velocities for a Large Sample of Late-type M, L and T Dwarfs
Faherty, Jacqueline K.; Burgasser, Adam J.; Cruz, Kelle L.; Shara, Michael M.; Walter, Frederick M.; Gelino, Christoper R. 2009, Proceedings on the 15th Cambridge Workshop on Cool Stars, 1094, 517.

3. Very Low Mass Objects in Orion OB1a and b
Walter, Frederick M., **Faherty, Jacqueline K.**; Sherry, William H.; Brittain, Sean; 2009, Proceedings on the 15th Cambridge Workshop on Cool Stars, 1094, 568.

2. A New Population of Young Brown Dwarfs
Cruz, Kelle L. , Kirkpatrick, Davy.; Burgasser, Adam J., Looper, Dagny; Mohanty, Subhanjoy, Prato, Lisa; **Faherty, Jacqueline K.**, Solomon, Adam. 2008, Proceedings on the 14th Cambridge Workshop on Cool Stars, 384, 119.

1. Brown Dwarf Kinematics Project
Faherty, Jacqueline K., Cruz, Kelle., Burgasser, Adam., Walter, Frederick., & Shara, Michael. 2008, IAU Symposium, Vol. 248, IAU Symposium, ed. W. J. Jin, I. Platais, & M. A. C. Perryman, 102-103

Teaching and Outreach

Professor, American Museum of Natural History (AMNH) Winter 2015- Present
Instructor for the graduate level Masters in Teaching (MAT) Space Systems Course

Adjunct, City University of New York (CUNY) Spring 2008- Present
Instructor for School of Professional Studies Space Time and Motion Course

Instructor, Hayden Planetarium Fall 2010 - Spring 2011
Instructor for the NASA High School After School Program

Lecturer, Hayden Planetarium Summer 2004 - Present
Presenter for Virtual Universe and Celestial Highlights monthly Planetarium programs

Hayden Astrophysics Outreach Coordinator, American Museum of Natural History Spring 2003 - Fall 2004
Created the Hayden Planetarium's Outreach program for middle-high school students.

Astronomy Moveable Museum Coordinator, American Museum of Natural History Winter 2002 - Spring 2003
Created teaching materials then instructed with the moveable at various schools in NYC

Instructor, American Museum of Natural History Fall 2002 - Spring 2011
Presenter with the Eugene Lang Middle School Outreach program

Teaching Assistant, Stony Brook University Fall 2004, Spring 2005
Led practical portion of Observational Astronomy for majors.

Instructor, Amateur Astronomers of New York Fall, Winter, Spring, 2002, 2003
Instructor for Introduction to Astronomy and Cosmology courses

Professional Development Instructor, American Museum of Natural History Spring 2002 - Fall 2004
Designed workshops for teachers from NYC schools on how to use AMNH as an Astronomy resource.

Selected Media Appearences

Disney+ show "The Big Fib", 1 episode
Time Out NY, several stories
Yahoo news, several stories about 2020 astronomical events
The economist, several stories
CNN International, several stories
USA Today, several stories
Newsweek, several stories
NBC News, several stories
NPR Ask me another, 2018 Mystery guest
NPR, The Takeaway, 2019 on Space Art
AM NY, several stories
Salon, 2018 Astronomy year in review video
Inverse, 2018 "I need my Space" podcast and several articles
New York Times: Contributing Scientist on numerous stories
NPR All Things Considered, 2016 Planet Line-up.
NPR All Things Considered, 2016 Trifecta of Celestial Activity.
NPR All Things Considered, 2015 Supermoon.

NPR Weekend Edition, 2014 Geminids meteor shower.
NPR Weekend Edition, 2014 Manhattanhenge.
Contributing Scientist "Worlds Weirdest Weather": Weather Channel, 8 episodes.
Fox 5 Morning Show, Multiple Appearences
Inside Edition, Multiple Appearences
The Women of Marvel Podcast
CUNY Science & U TV Multiple Appearences
Wall Street Journal, WPIX11, Village Voice, NY 1 TV, Accuweather.com, NY Post, ZDF German TV for various Manhattanhenge events
WNYC Radio, NHK Japan TV interviews for July 11, 2012 Manhattanhenge event
La Tercera, 24 horas, El Mercurio, RadioChile interviews for June 5th Transit of Venus event on Easter Island
NPR Science Friday Radio, Televisa Mexico TV interviews for July 12th, 2011 Manhattanhenge event
American Museum of Natural History Blog contributor

Selected Public Talks

May 2019 Benjamin Deane lecture at California Academy "The Milky Way as You've never seen it before"
Keynote speaker at 2019 Acadia Night Sky festival
Keynote speaker at Susquehanna University 2019 fall lecture series
2019 SpaceFest at AMNH, guest speaker
Keynote speaker at Columbia University's Cracking the Code: Teaching STEM for Citizenship in the 21st Century
Summer of Stars at the Hayden Planetarium, 2015
Going Rogue: Planets without Parent Stars in the Galaxy
Benjamin Dean Lecturer at the Morrison Planetarium, 2014
Stars, Constellations, and Legends in the Southern Sky
Virtual Universe and Celestial Highlights Talks at AMNH (6-10 each year)
El Futuro de Los Viajes en Espacio
Easter Island Museum, 2012
The Good, the Bad, and the Ugly: Astronomy in the Media
Columbia University Open Night, 2009
Planets, Planets Everywhere!
Amateur Astronomers of New Jersey, 2009
Robots on Mars: The story of Spirit and Opportunity
New School, 2006

SELECTED AMNH Astronomy LIVE Talks (monthly series in the Hayden):

The Milky Way as you've never seen it before
Our Cosmic Ballet
The Grand Tour of the Universe
Strange New Worlds
Things that go BANG in the Universe
Astronomical Phenomenal Revealed
Experience Manhattanhenge
Astronomy Live: Sky to Space
Manhattanhenge Revealed!
Insights from the Hubble Telescope
The Explosive Universe
Our Solar Neighborhood
Whats up in the Winter Sky?

SELECTED Astronomy on Tap Talks (monthly neighborhood bar talks):

Manhattanhenge Explained
The James Webb Space Telescope
Debunking COSMOS

Hubble's World

Diversity Efforts

Raising Awareness in Science Education for Women (RAISE-W) Current
Along with Dr Mande Holford, a professor of chemistry at Hunter college, we have started a 501-c non-profit corporation entitled RAISE-W. Current efforts match young women with executive style coach mentors to foster a strong, supportive academic environment and study/encourage the retention of females on science career tracks.

Organizer, Easter Island Transit Viewing Summer 2012
Organized a 2-day Astronomy outreach workshop at the Easter Island Museum and a visit by 9 professional astronomers to the 3 main schools on the island to promote the June 5th Transit of Venus. 20% of the island was present for the viewing I organized at the Ahu Tahai Moai alter site.

Organizer, Global Hetu'u Venus Transit Viewing Network Summer 2012
Organized a global network of school groups in Chile, China, Australia, Europe, Japan, Iran, USA, India and Colombia to view the June 5th/6th transit of venus and combine timing measurements to compute the distance to the Sun.

Panelist, AMNH AWIS chapter Winter 2011
Served on a lunch panel with 4 senior female faculty members to to discuss issues related to gender that arise while doing field work

Mentor, Hayden Planetarium Fall 2010 - Present
Mentor for three high school female students in the NASA Science and Research Mentoring Program (SRMP)

National Society of Black Physicists Winter 2009, 2010
Attended annual meeting to give scientific talk and forge mentorships.

Presenter, Trendsetters Network Conference Fall 2002
Speaker at an all girls event where female professionals look to mentor young women in Science

Mentor, Intermediate School 162 Fall 2003-Spring 2004
Arranged Astronomy activities for the after-school programs at IS162 in the Bronx

Presenter, Kids Corp Day Camp Summer 2002
Provided Astronomy activities for students bused in from NYC by aid societies to rural NJ

Presenter, WIZARDS outreach program Fall 2001
Mentored middle school females in Science through the WIZARDS outreach program

Observing Experience

VLT: UT1, UT2, UT3, ISAAC, X-shooter, FORS2 CTIO: Blanco 4.0m, 1.5m, 0.9m 1.3m with near-IR instruments ISPI, CPAPIR, ANDICAM optical imager CFIM; RC spectrograph; Echelle spectrograph
LCO: Clay and Baade 6.5m with MagE, LDSS-3, FIRE Spectrographs; PANIC near-IR imager
Dupont: CAPSCAM Optical imager
MDM: 1.3m, 2.4m with optical imager NELLIE, near-IR imager and spectrograph TIFKAM
IRTF: 3.5m with SpeX near-IR spectrograph
KECK: NIRSPEC
La Silla: NTT with SofI

Selected Scientific Talks

Visualizing a Billion Stars for Science and Education
Northwestern University CIERA Colloquium speaker. Invited. 2020

American Association of Physics Teachers (AAPT). Invited. 2020
Astronomical Data Analysis and Software Systems Conference (ADASS). Invited. 2019
ESAC colloquium. Invited. 2019

The Importance of Brown Dwarfs
UCSC Astronomy colloquium. Invited. 2019
MIT Astronomy colloquium. Invited. 2019
Cornell University Astronomy colloquium. Invited. 2019

How Gaia reveals the diversity of brown dwarfs
53rd ESLAB symposium: the Gaia universe. Invited 2019.

Discoveries from the citizen science project Backyard Worlds: Planet 9
The Brown Dwarf to Exoplanet Connection Conference 3, Delaware. Contributed Talk, 2019

Super Jupiters at Different Ages
University of Michigan Astronomy colloquium. Invited. 2019
Michigan State Astronomy colloquium. Invited. 2019

Science Visualization from an Education Perspective
Moderator for a 4 person panel, NYC. Invited, 2017

Observed Properties of Super Jupiters
The Brown Dwarf to Exoplanet Connection Conference 2, Delaware. Contributed Talk, 2017

Population Properties of Exoplanet Analogs
Exoplanets in the era of Giant telescopes (GMT meeting), California. Contributed Talk, 2016

Brown Dwarfs and Exoplanets
SACNAS meeting, California. Invited Talk, 2016

The Coldest Brown Dwarfs
Magellan Science Meeting, Washington, DC. Contributed Talk, 2016

Fundamental Properties of Brown Dwarf Exoplanet Analogs
Cool Stars Meeting, Sweden. Invited Talk, 2016

Life Around Brown Dwarfs?
Carnegie Origins meeting, Washington, DC, 2015.

The Brown Dwarf Kinematics Project: Meet our Cool Planet-Like Neighbors
Harvard CFA Colloquium, Boston, MA 2015.

The Brown Dwarf Kinematics Project: Meet our Cool Planet-Like Neighbors
Leiden University, Leiden, Netherlands, 2015.

The Brown Dwarf Kinematics Project: Meet our Cool Planet-Like Neighbors
Vassar College, Poughkeepsie, NY, 2015.

The Brown Dwarf Kinematics Project: Meet our Cool Planet-Like Neighbors
Bucknell Colloquium, Lewisburg, PA, 2015.

Extreme Planet-Like Systems: Brown Dwarfs at the Exoplanet Mass Boundary
Extreme Solar Systems III, Hilo Hawaii, 2015.

The Fundamental Properties of Giant Exoplanet Analogs
In the Spirit of Lyot: Direct Detection of Exoplanets and Circumstellar Disks, Montreal, Quebec, 2015.

Fundamental Properties of an Age Calibrated Sample of Brown Dwarfs
IAUS 314: Young Stars and Planets Near the Sun, Atlanta, GA, 2015.

The Brown Dwarf to Exoplanet Connection
The Brown Dwarf to Exoplanet Connection Conference: From Atmospheres to Formation. Review and Workshop, University of Delaware, 2014.

Ages of Brown Dwarfs
Gaia and the Unseen: The Brown Dwarf Question. Turin, Italy. Invited Review.

Young Brown Dwarfs at the Exoplanet Mass Boundary
Cool Stars 18: Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, Flagstaff 2014

Young Brown Dwarfs at the Exoplanet Mass Boundary
Universidad de Catolica Santiago, Chile, 11/2013, University of Delaware, USA, 3/2014, Carnegie Institution of Science, DTM, USA, 04/2014, Carnegie Institution of Science, Pasadena, USA 03/2014 Universitie de Montreal, Canada, 02/2014 Stony Brook University, USA, 02/2014, Harvard, CFA, USA, 05/2014

To be or not to be (a planet): Isolated Brown Dwarfs at the Exoplanet Mass Boundary
Latin America Regional IAU Meeting (LARIM), Brazil 2013

The Kinematics of Young Brown Dwarfs
Exoplanets and Brown Dwarfs: Mind the Gap, Hatfield, UK 2013

Young Brown Dwarfs as Giant Exoplanet Analogs
Brown Dwarfs Come of Age, Fuerteventura, Spain, 2013

Advancements in Astrometry: From Brown Dwarfs to Giant Exoplanets
University of New South Wales, Australia 2012

Characterizing Giant Exoplanet Analogs
2nd Australian Exoplanet Workshop, Canberra, Australia, 2012

Advancements in Astrometry: From Brown Dwarfs to Giant Exoplanets
University of Hertfordshire, Hatfield UK, 2012, Review talk at Cool Stars 17 Ultracool Dwarf Kinematics Splinter Session Barcelona, Spain, 2012

The Brown Dwarf Kinematics Project
Universidad de Chile, Cerro Calan Santiago, Chile 2011, Universidad Catolica Santiago, Chile 2011, European Southern Observatory Santiago, Chile 2011

The Brown Dwarf Kinematics Project: How Distances Both Advance and Complicate Our Understanding of the Brown Dwarf Population
AAS 2011 Roger Doxsey Thesis Prize Presentation, Lehman College Astronomy 2011 Seminar, Penn State Astronomy Seminar 2011, Delaware Astronomy Seminar 2011, ASNY Graduate Thesis Prize Invited Talk 2011

Learning from the Motions of Ultracool Dwarfs: Companions, Ages, Higher Order Multiplicity
Recipes for Making Brownies: Theory vs. Observations, Netherlands 2009

Meeting Our Cool, Fast, Brown Dwarf Neighbors
MDM Consortium Meeting, New York 2009

Learning From the Motions of Ultracool Dwarfs
National Society of Black and Hispanic Physicist Annual Meeting, Nashville, 2009
New York Workshop on Computer, Earth, and Space Sciences, New York 2009

A New Population of Substellar Mass Objects in Orion
Astronomical Society of New York Annual Meeting, 2007

Professional Memberships or Services

AAS Education Board
Scientific Organizing Committee: WISE at 5: Legacy and Prospects
Scientific Organizing Committee: The Brown Dwarf to Exoplanet Connection Conference I and II
Editor, conference proceedings, Gaia and the Unseen: The Brown Dwarf Question
Scientific Organizing Committee: Gaia and the Unseen: The Brown Dwarf Question
Scientific Organizing Committee: Exoplanets and Brown Dwarfs: Mind the Gap
Referee: ApJ, AJ, MNRAS, Science
American Astronomical Society
AAS Committee on the Status of Minorities in Astronomy (CSMA) term member
National Society of Black Physicists
American Association of University Women
Association for Women in Science
Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)
Time allocation Committee: HST, Spitzer, Gemini

Active BDNYC Group Members Being Mentored

Daniella Bardalez Gagliuffi (AMNH Postdoctoral Fellow)
Johanna Vos (AMNH Postdoctoral Fellow)
Eileen Gonzales (5th year PhD student CUNY)
Rocio Kiman (4th year PhD student CUNY)
Mark Popinchalk (3rd year PhD student CUNY)
Emily Calamari (1st year PhD student CUNY)
Elena Mitra (CUNY Hunter 3rd year undergraduate)
Afra Ashraf (Barnard 4th year undergraduate)
Claire Mechmann (Lehman college undergraduate)
Janani Balasubramanian (BDNYC artist in residency)

Past Students Mentored

Elianna Schwab (former Helen Fellow, AMNH Bridge UP program, current NSF graduate student UC Berkeley)
Coleen Cleary (former Helen Fellow, AMNH Bridge UP program, current software engineer)
Jean-Paul Ventura (former CUNY undergraduate, current data scientist)
Victoria DiTomasso (former CUNY undergraduate, current Harvard graduate student)
Evan Morris (former Columbia undergraduate, current UCSC graduate student)
Haley Fica (former Barnard undergraduate, current Masters student, Columbia)
Paige Giorla (former CUNY graduate student, current software engineer)
Aurora Cid (former CUNY undergraduate)
Joseph Filippazzo (former CUNY graduate student, currently STSCI staff)
David Rodriguez (former AMNH postdoc, currently STSCI staff)
Adric Riedel (former AMNH postdoc, currently STSCI staff)
Munazza Alam (former CUNY undergrad, current graduate student Harvard)
Sara Camnasio (former CUNY undergrad, current graduate student NYU)
Cam Buzzard (former CUNY undergrad, current graduate student Caltech)
Stephanie Douglas (former AMNH REU & Columbia graduate student, current NSF postdctoral fellow Harvard)
Erini Lambrdides (former AMNH research assistant, current graduate student John Hopkins)
Odette Toloza (former U de Chile undergrad, current postdoc Warwick)
Vicente Villanueva (former U de Chile undergrad, current graduate student Sao Paolo)

Jocelyn Ferrara (former Barnard undergrad, current Gemini telescope staff member)