

JACQUELINE K FAHERTY
Curriculum Vitae

American Museum of Natural History
Department of Astrophysics
79th Street and Central Park West
New York, NY 10023

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Current Position

Senior Scientist & Senior Education Manager
Jointly in the Department of Astrophysics & the Department of Education
American Museum of Natural History

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

McNulty scholars Outstanding mentor award, 2023
Inductee as an American Astronomical Society Fellow, 2022
Robert H Goddard Award for Backyard Worlds Science Accomplishments, 2021
American Astronomical Society's Vera Rubin Early Career Prize, 2020
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 (select sample)

THE RICHARD LOUNSBERRY FOUNDATION. A COSMIC VIEW OF LIFE ON EARTH: PART 2 (PI J. Faherty \$183,013)
TESS CYCLE 5 GUEST OBSERVER PROGRAM. OUR YOUNG SOLAR NEIGHBORHOOD (PI J. Faherty \$50,000)
NSF CAREER AWARD: UNDERSTANDING OUR DYNAMIC SOLAR NEIGHBORHOOD (PI J. Faherty \$598,538)
NASA XRP. READ BETWEEN THE LINES: DETERMINING ATMOSPHERE AND BULK COMPOSITIONS FOR PLANETARY MASS OBJECTS USING SPECTRAL RETRIEVALS (PI J. Faherty \$513,930)
TESS CYCLE 3 GUEST OBSERVER PROGRAM. INVESTIGATING LOCAL KINEMATIC STRUCTURES WITH TESS (PI J. Faherty \$50,000)
NSF COLLABORATIVE RESEARCH: BACKYARD WORLDS: PLANET 9 (PI J. Faherty \$202,802)
SPACE TELESCOPE SCIENCE INSTITUTE, JWST AWARD. EXPLAINING THE DIVERSITY OF COLD WORLDS (PI J. Faherty \$253,755)
NASA ADAP : UNCOVERING ULTRACOOL BENCHMARKS IN A WISE TO GAIA SEARCH (PI J. Faherty \$291,053)
SPACE TELESCOPE SCIENCE INSTITUTE, VALIDATING THE FIRST TECHNIQUE TO FIND VARIABLE BROWN DWARFS (PI J. Faherty \$46,955)
SPACE TELESCOPE SCIENCE INSTITUTE, HUBBLE SPACE TELESCOPE AWARD. CHARACTERIZING

COLD DISCOVERIES IN THE SUNS BACKYARD (PI J. Faherty \$73,041)
 THE RICHARD LOUNSBERRY FOUNDATION. A COSMIC VIEW OF LIFE ON EARTH (PI J. Faherty \$125,000)
 ALFRED P SLOAN FOUNDATION. 2030STEM (PI J. Faherty \$250,000)
 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 Cycle 2 (GO 3670) Sinking silicates: tracing rainout across the LT transition (Co-PI J. Faherty)
 James Webb Space Telescope Cycle 1 (GO 2124) Explaining the Diversity of Cold Worlds (PI 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

Professional Memberships or Services AAS Education Board (2016-2019)
 Scientific Organizing Committee: WISE at 5: Legacy and Prospects
 Scientific Organizing Committee: The Brown Dwarf to Exoplanet Connection Conference I, II, III
 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
 Sagan Summer Workshop 2022, Co-Chair
 Referee: ApJ, AJ, MNRAS, Science
 American Astronomical Society
 AAS Committee on the Status of Minorities in Astronomy (CSMA) term member (2011 - 2019)
 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

Jasmine Ramirez (1st year PhD student CUNY)
 Caprice Phillips (3rd year PhD student OSU-)
 Rosario Cecilio-Flores (CUNY/AMNH Masters student)
 Genaro Suarez (AMNH Postdoctoral Fellow)
 Johanna Vos (AMNH Postdoctoral Fellow)
 Niall Whiteford (AMNH Postdoctoral Fellow)
 Mark Popinchalk (6th year PhD student CUNY)
 Emily Calamari (4th year PhD student CUNY)
 Austin Rothermich (2nd year PhD student CUNY)
 Mohammad Refat (Postbac at AMNH)
 Everett McArthur (4th year undergraduate Columbia)
 Sherelyn Alejandro (3rd year undergraduate CUNY)
 Leslie Moranta (1st year graduate student at U of Montreal – co supervisor)
 Azul Ruiz Diaz (2nd year undergraduate Barnard)
 Angela Reji Thomas (3rd year undergraduate CUNY)

Janani Balasubramanian (BDNYC artist in residency)

Past Students Mentored

Daniella Bardalez Gagliuffi (former AMNH Postdoctoral Fellow, current faculty at Amherst college)
Afra Ashraf (former postbac researcher, current graduate student at Columbia)
Andrew Ayala (former postbac researcher, current Masters student at CUNY)
Mary Jimenez (former REU, current MAT student at AMNH)
Lauryn Williams (former REU, current graduate student at UW)
Rocio Kiman (former PhD student CUNY, current Burke fellow at Caltech)
Eileen Gonzales (former PhD student CUNY, current 51 Peg b postdoctoral fellow at Cornell)
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)
Elena Mitra (CUNY Hunter 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 postdoctoral fellow Harvard)
Erini Lambdides (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)

First Author**Refereed****Publications**

15. A WIDE PLANETARY MASS COMPANION DISCOVERED THROUGH THE CITIZEN SCIENCE PROJECT BACKYARD WORLDS: PLANET 9

Faherty, Jacqueline K. and Gagne, Jonathan and Popinchalk, Mark and Vos, Johanna M. and Burgasser, Adam J. and Schmann, Jrg and Schneider, Adam C. and Kirkpatrick, J. Davy and Meisner, Aaron M. and Kuchner, Marc J. and Bardalez Gagliuffi, Daniella C. and Marocco, Federico and Caselden, Dan and Gonzales, Eileen C. and Rothermich, Austin and Casewell, Sarah L. and Debes, John H. and Aganze, Christian and Ayala, Andrew and Hsu, Chih-Chun and Cooper, William J. and Smart, R. L. and Gerasimov, Roman and Theissen, Christopher A. and Backyard Worlds: Planet 9 Collaboration, 2021, ApJ, 923, 1, 10.3847/1538-4357/ac2499

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.; Gagn, 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, 2020, 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. 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 Gagn, 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 Bliik, 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 Bliik, 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, Christopher 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

132. PATCHY FORSTERITE CLOUDS IN THE ATMOSPHERES OF TWO HIGHLY VARIABLE EXOPLANET ANALOGS. Johanna M. Vos, Ben Burningham, Jacqueline K. Faherty, Shereilyn Alejandro, Eileen Gonzales, Emily Calamari, Daniella Bardalez Gagliuffi, Channon Visscher, Xianyu Tan, Caroline V. Morley, Mark Marley, Marina E. Gemma, Niall Whiteford, Josefine Gaarn, and Grace Park. ApJ, 944(2):138, February 2023.

131. THE PERKINS INFRARED EXOSATELLITE SURVEY (PINES). II. TRANSIT CANDIDATES AND IMPLICATIONS FOR PLANET OCCURRENCE AROUND L AND T DWARFS. Patrick Tamburo, Philip S. Muirhead, Allison M. McCarthy, Murdock Hart, Johanna M. Vos, Eric Agol, Christopher Theissen, David Gracia, Daniella C. Bardalez Gagliuffi, and Jacqueline Faherty. AJ, 164(6):252, December 2022.

130. REDDER THAN RED: DISCOVERY OF AN EXCEPTIONALLY RED L/T TRANSITION DWARF. Adam C. Schneider, Adam J. Burgasser, Justice Bruursema, Jeffrey A. Munn, Frederick J. Vrba, Dan Caselden, Martin Kabatnik, Austin Rothermich, Arttu Sainio, Thomas P. Bickle, Scott E. Dahm, Aaron M. Meisner, J. Davy Kirkpatrick, Genaro Sua rez, Jonathan Gagne, Jacqueline K. Faherty, Johanna M. Vos, Marc J. Kuchner, Stephen J. Williams, Daniella Bardalez Gagliuffi, Christian Aganze, Chih-Chun Hsu, Christopher Theissen, Michael C. Cushing, Federico Marocco, Sarah Casewell, and Backyard Worlds: Planet 9 Collaboration. ApJ, 943(2):L16, February 2023.

129. EXAMINING THE ROTATION PERIOD DISTRIBUTION OF THE 40 MYR TUCANA-HOROLOGIUM ASSOCIATION WITH TESS. Mark Popinchalk, Jacqueline K. Faherty, Jason L. Curtis, Jonathan Gagne, Daniella C. Bardalez Gagliuffi, Johanna M. Vos, Andrew Ayala, Lisseth Gonzales, and Rocio Kiman. ApJ, 945(2):114, March 2023.

128. A TEMPERATE EARTH-SIZED PLANET WITH TIDAL HEATING TRANSITING AN M6 STAR. Merrin S. Peterson, Bjorn Benneke, Karen Collins, Caroline Piaulet, Ian J. M. Crossfield, Mohamad Ali-Dib, Jessie L. Christiansen, Jonathan Gagne, Jackie Faherty, Edwin Kite, Courtney Dressing, David Charbonneau, Felipe Murgas, Marion Cointepas, Jose Manuel Almenara, Xavier Bonfils, Stephen Kane, Michael W. Werner, Varoujan Gorjian, Pierre-Alexis Roy, Avi Shporer, Francisco J. Pozuelos, Quentin Jay Socia, Ryan Cloutier, Jeremy Dietrich, Jonathan Irwin, Lauren Weiss, William Waalkes, Zach Berta-Thomson, Thomas Evans, Daniel Apai, Hannu Parviainen, Enric Pall e, Norio Narita, Andrew W. Howard, Diana Dragomir, Khalid Barkaoui, Michael Gillon, Emmanuel Jehin, Elsa Ducrot, Zouhair Benkhaldoun, Akihiko Fukui, Mayuko Mori, Taku Nishiumi, Kiyoe Kawauchi, George Ricker, David W. Latham, Joshua N. Winn, Sara Seager, Howard Isaacson, Alex Bixel, Aidan Gibbs, Jon M. Jenkins, Jeffrey C. Smith, Jose Perez Chavez, Benjamin V. Rackham, Thomas Henning, Paul Gabor, Wen-Ping Chen, Nestor Espinoza, Eric L. N. Jensen, Kevin I. Collins, Richard P. Schwarz, Dennis M. Conti, Gavin Wang, John F. Kielkopf, Shude Mao, Keith Horne, Ramotholo Sefako, Samuel N. Quinn, Dan Moldovan, Michael Fausnaugh, Gabor Fuuresz, and Thomas Barclay. *Nature*, 2023.

127. INFORMED SYSTEMATIC METHOD TO IDENTIFY VARIABLE MID- AND LATE-T DWARFS. Natalia Oliveros-Gomez, Elena Manjavacas, Afra Ashraf, Daniella C. Bardalez-Gagliuffi, Johanna M. Vos, Jacqueline K. Faherty, Theodora Karalidi, and Daniel Apai. *ApJ*, 939(2):72, November 2022.

126. THE JWST EARLY-RELEASE SCIENCE PROGRAM FOR DIRECT OBSERVATIONS OF EXOPLANETARY SYSTEMS II: A 1 TO 20 M SPECTRUM OF THE PLANETARY-MASS COMPANION VHS 1256-1257 B Brittany E. Miles, Beth A. Biller, Polychronis Patapis, Kadin Worthen, Emily Rickman, Kielan K. W. Hoch, Andrew Skemer, Marshall D. Perrin, Niall Whiteford, Christine H. Chen, B. Sargent, Sagnick Mukherjee, Caroline V. Morley, Sarah E. Moran, Mickael Bonnefoy, Simon Petrus, Aarynn L. Carter, Elodie Choquet, Sasha Hinkley, Kimberly Ward-Duong, Jarron M. Leisenring, Maxwell A. Millar-Blanchaer, Laurent Pueyo, Shrishmoy Ray, Steph Sallum, Karl R. Stapelfeldt, Jordan M. Stone, Jason J. Wang, Olivier Absil, William O. Balmer, Anthony Boccaletti, Mariangela Bonavita, Mark Booth, Brendan P. Bowler, Gael Chauvin, Valentin Christiaens, Thayne Currie, Camilla Danielski, Jonathan J. Fortney, Julien H. Girard, Carol A. Grady, Alexandra Z. Greenbaum, Thomas Henning, Dean C. Hines, Markus Janson, Paul Kalas, Jens Kammerer, Grant M. Kennedy, Matthew A. Kenworthy, Pierre Kervella, Pierre-Olivier Lagage, Ben W. P. Lew, Michael C. Liu, Bruce Macintosh, Sebastian Marino, Mark S. Marley, Christian Marois, Elisabeth C. Matthews, Brenda C. Matthews, Dimitri Mawet, Michael W. McElwain, Stanimir Metchev, Michael R. Meyer, Paul Molliere, Eric Pantin, Andreas Quirrenbach, Isabel Rebollido, Bin B. Ren, Glenn Schneider, Malavika Vasist, Mark C. Wyatt, Yifan Zhou, Zackery W. Briesemeister, Marta L. Bryan, Per Calis-sendorff, Faustine Cantalloube, Gabriele Cugno, Matthew De Furio, Trent J. Dupuy, Samuel M. Factor, Jacqueline K. Faherty, Michael P. Fitzgerald, Kyle Franson, Eileen C. Gonzales, Callie E. Hood, Alex R. Howe, Adam L. Kraus, Masayuki Kuzuhara, Anne-Marie Lagrange, Kellen Lawson, Cecilia Lazzoni, Pengyu Liu, Jorge Llop-Sayson, James P. Lloyd, Raquel A. Martinez, Johan Mazoyer, Sascha P. Quanz, Jea Adams Redai, Matthias Samland, Joshua E. Schlieder, Motohide Tamura, Xianyu Tan, Taichi Uyama, Arthur Vigan, Johanna M. Vos, Kevin Wagner, Schuyler G. Wolff, Marie Ygouf, Xi Zhang, Keming Zhang, and Zhoujian Zhang. *ApJ*, 946(1):L6, March 2023.

125. SURVEYING NEARBY BROWN DWARFS WITH HGCA: DIRECT IMAGING DISCOVERY OF A FAINT, HIGH-MASS BROWN DWARF ORBITING HD 176535 A. Yiting Li, Timothy D. Brandt, G. Mirek Brandt, Qier An, Kyle Franson, Trent J. Dupuy, Minghan Chen, Rachel Bowens-Rubin, Briley L. Lewis, Brendan P. Bowler, Aidan Gibbs, Rocio Kiman, Jacqueline Faherty, Thayne Currie, Rebecca Jensen-Clem, Hengyue Zhang, Ezequiel Contreras-Martinez, Michael P. Fitzgerald, Benjamin A. Mazin, and Maxwell Millar-Blanchaer. *MNRAS*, 522(4):56225637, July 2023.

124. A COMPARATIVE L-DWARF SAMPLE EXPLORING THE INTERPLAY BETWEEN ATMOSPHERIC

ASSUMPTIONS AND DATA PROPERTIES. Eileen C. Gonzales, Ben Burningham, Jacqueline K. Faherty, Nikole K. Lewis, Channon Visscher, and Mark Marley. *ApJ*, 938(1):56, October 2022.

123. THE OCEANUS MOVING GROUP: A NEW 500 MYR OLD HOST FOR THE NEAREST BROWN DWARF. Jonathan Gagne, Leslie Moranta, Jacqueline K. Faherty, Rocio Kiman, Dominic Couture, Arnaud Rene Larochele, Mark Popinchalk, and Daniella Morrone. *ApJ*, 945(2):119, March 2023.

122. THE PUZZLE OF THE FORMATION OF T8 DWARF ROSS 458C. Josefine Gaarn, Ben Burningham, Jacqueline K. Faherty, Channon Visscher, Mark S. Marley, Eileen C. Gonzales, Emily Calamari, Daniella Bardalez Gagliuffi, Roxana Lupu, and Richard Freedman. *MNRAS*, 521(4):57615775, June 2023.

121. ASTROMETRIC ACCELERATIONS AS DYNAMICAL BEACONS: DISCOVERY AND CHARACTERIZATION OF HIP 21152 B, THE FIRST T-DWARF COMPANION IN THE HYADES. Kyle Franson, Brendan P. Bowler, Mariangela Bonavita, Timothy D. Brandt, Minghan Chen, Matthias Samland, Zhoujian Zhang, Anna Lueber, Kevin Heng, Daniel Kitzmann, Trevor Wolf, Brandon A. Jones, Quang H. Tran, Daniella C. Bardalez Gagliuffi, Beth Biller, Jeffrey Chilcote, Justin R. Crepp, Trent J. Dupuy, Jacqueline Faherty, Cl emence Fontanive, Tyler D. Groff, Raffaele Gratton, Olivier Guyon, Rebecca Jensen-Clem, Nemanja Jovanovic, N. Jeremy Kasdin, Julien Lozi, Eugene A. Magnier, Koralka Muzic, Aniket Sanghi, and Christopher A. Theissen. *AJ*, 165(2):39, February 2023.

120. JWST/NIRCAM DISCOVERY OF THE FIRST Y+Y BROWN DWARF BINARY: WISE J033605.05-014350.4. Per Calissendorff, Matthew De Furio, Michael Meyer, L o c Albert, Christian Aganze, Mohamad Ali-Dib, Daniella C. Bardalez Gagliuffi, Frederique Baron, Charles A. Beichman, Adam J. Burgasser, Michael C. Cushing, Jacqueline Kelly Faherty, Cl emence Fontanive, Christopher R. Gelino, John E. Gizis, Alexandra Z. Greenbaum, J. Davy Kirkpatrick, Sandy K. Leggett, Frantz Martinache, David Mary, Mamadou NDiaye, Benjamin J. S. Pope, Thomas Roellig, Johannes Sahlmann, Anand Sivaramakrishnan, Daniel Peter Thorngren, Marie Ygouf, and Thomas Vandal. *ApJ*, 947(2):L30, April 2023.

119. AN ATMOSPHERIC RETRIEVAL OF THE BROWN DWARF GLIESE 229B. Emily Calamari, Jacqueline K. Faherty, Ben Burningham, Eileen Gonzales, Daniella Bardalez-Gagliuffi, Johanna M. Vos, Marina Gemma, Niall Whiteford, and Josefine Gaarn. *ApJ*, 940(2):164, December 2022.

118. LONG-TERM 4.6 M VARIABILITY IN BROWN DWARFS AND A NEW TECHNIQUE FOR IDENTIFYING BROWN DWARF BINARY CANDIDATES. Hunter Brooks, J. Davy Kirkpatrick, Aaron M. Meisner, Christopher R. Gelino, Daniella C. Bardalez Gagliuffi, Federico Marocco, Adam C. Schneider, Jacqueline K. Faherty, S. L. Casewell, Yadukrishna Raghu, Marc J. Kuchner, and Backyard Worlds: Planet 9 Collaboration. *AJ*, 165(6):232, June 2023.

117. NEW CANDIDATE EXTREME T SUBDWARFS FROM THE BACKYARD WORLDS: PLANET 9 CITIZEN SCIENCE PROJECT, Meisner, Aaron M. and Schneider, Adam C. and Burgasser, Adam J. and Marocco, Federico and Line, Michael R. and **Faherty, Jacqueline K.** and Kirkpatrick, J. Davy and Caselden, Dan and Kuchner, Marc J. and Gelino, Christopher R. and Gagn, Jonathan and Theissen, Christopher and Gerasimov, Roman and Aganze, Christian and Hsu, Chih-chun and Wisniewski, John P. and Casewell, Sarah L. and Bardalez Gagliuffi, Daniella C. and Logsdon, Sarah E. and Eisenhardt, Peter R. M. and Allers, Katelyn and Debes, John H. and Allen, Michaela B. and Stevnbak Andersen, Nikolaj and Goodman, Sam and Gramaize, Lopold and Martin, David W. and Sainio, Arttu and Cushing, Michael C. and Backyard Worlds: Planet 9 Collaboration, July 2021, *ApJ*, 915, 2, 10.3847/1538-4357/ac013c

116. L-BAND SPECTROSCOPY OF YOUNG BROWN DWARFS.

Samuel A. Beiler, Katelyn N. Allers, Michael Cushing, Jacqueline Faherty, Mark Marley, and Andrew Skemer. *MNRAS*, 518(4):48704894, February 2023.

- 115.** THE PERKINS INFRARED EXOSATELLITE SURVEY (PINES) I. SURVEY OVERVIEW, REDUCTION PIPELINE, AND EARLY RESULTS,
Tamburo, Patrick and Muirhead, Philip S. and McCarthy, Allison M. and Hart, Murdock and Gracia, David and Vos, Johanna M. and Bardalez Gagliuffi, Daniella C. and **Faherty, Jacqueline** and Theissen, Christopher and Agol, Eric and Skinner, Julie N. and Sagar, Sheila, June 2022, *AJ*, 163, 6, 10.3847/1538-3881/ac64aa
- 114.** SUBSTELLAR HYADES CANDIDATES FROM THE UKIRT HEMISPHERE SURVEY,
Schneider, Adam C. and Vrba, Frederick J. and Munn, Jeffrey A. and Dahm, Scott E. and Bruserema, Justice and Williams, Stephen J. and Dorland, Bryan N. and **Faherty, Jacqueline K.** and Rothermich, Austin and Calamari, Emily and Cushing, Michael C. and Caselden, Dan and Kabatnik, Martin and Pendrill, William and Sainio, Arttu and Andersen, Nikolaj Stevnbak and Tanner, Christopher, May 2022, *AJ*, 163, 5, 10.3847/1538-3881/ac5f50
- 113.** DISCOVERY OF 16 NEW MEMBERS OF THE SOLAR NEIGHBORHOOD USING PROPER MOTIONS FROM CATWISE2020,
Kota, Tarun and Kirkpatrick, J. Davy and Caselden, Dan and Marocco, Federico and Schneider, Adam C. and Gagn, Jonathan and **Faherty, Jacqueline K.** and Meisner, Aaron M. and Kuchner, Marc J. and Casewell, Sarah and Kacholia, Kanishk and Bickle, Tom and Beaulieu, Paul and Colin, Guillaume and Hamlet, Leslie K. and Schmann, Jrg and Tanner, Christopher and Backyard Worlds: Planet 9 Collaboration, March 2022, *AJ*, 163, 3, 10.3847/1538-3881/ac4713
- 112.** CWISE J014611.20-050850.0AB: THE WIDEST KNOWN BROWN DWARF BINARY IN THE FIELD,
Softich, Emma and Schneider, Adam C. and Patience, Jennifer and Burgasser, Adam J. and Shkolnik, Evgenya and **Faherty, Jacqueline K.** and Caselden, Dan and Meisner, Aaron M. and Kirkpatrick, J. Davy and Kuchner, Marc J. and Gagn, Jonathan and Gagliuffi, Daniella Bardalez and Cushing, Michael C. and Casewell, Sarah L. and Aganze, Christian and Hsu, Chih-Chun and Andersen, Nikolaj Stevnbak and Kiwy, Frank and Thvenot, Melina and Backyard Worlds: Planet 9 Collaboration, February 2022, *ApJL*, 926, 2, 10.3847/2041-8213/ac51d8
- 111.** DISCOVERY OF CWISE J052306.42-015355.4, AN EXTREME T SUBDWARF CANDIDATE,
Brooks, Hunter and Kirkpatrick, J. Davy and Caselden, Dan and Schneider, Adam C. and Meisner, Aaron M. and **Faherty, Jacqueline K.** and Casewell, S. L. and Kuchner, Marc J. and Kuchner, Marc J. and Backyard Worlds: Planet 9 Collaboration, February 2022, *AJ*, 163, 2, 10.3847/1538-3881/ac3a0a
- 110.** LET THE GREAT WORLD SPIN: REVEALING THE STORMY, TURBULENT NATURE OF YOUNG GIANT EXOPLANET ANALOGS WITH THE SPITZER SPACE TELESCOPE,
Vos, Johanna M. and **Faherty, Jacqueline K.** and Gagn, Jonathan and Marley, Mark and Metchev, Stanimir and Gizis, John and Rice, Emily L. and Cruz, Kelle, January 2022, *ApJ*, 924, 2, 10.3847/1538-4357/ac4502
- 109.** THE BROWN DWARF KINEMATICS PROJECT (BDKP). V. RADIAL AND ROTATIONAL VELOCITIES OF T DWARFS FROM KECK/NIRSPEC HIGH-RESOLUTION SPECTROSCOPY,
Hsu, Chih-Chun and Burgasser, Adam J. and Theissen, Christopher A. and Gelino, Christopher R. and Birky, Jessica L. and Diamant, Sharon J. M. and Bardalez Gagliuffi, Daniella C. and Aganze, Christian and Blake, Cullen H. and **Faherty, Jacqueline K.**, December 2021, *ApJs*, 257, 2, 10.3847/1538-4365/ac1c7d
- 108.** THE FIRST RETRIEVAL OF A SUBSTELLAR SUBDWARF: A CLOUD-FREE SDSS J125637.13-022452.4,
Gonzales, Eileen C. and Burningham, Ben and **Faherty, Jacqueline K.** and Visscher, Channon

and Marley, Mark and Lupu, Roxana and Freedman, Richard and Lewis, Nikole K., December 2021, ApJ, 923, 1, 10.3847/1538-4357/ac294e

107. 14 HER: A LIKELY CASE OF PLANET-PLANET SCATTERING, Bardalez Gagliuffi, Daniella C. and **Faherty, Jacqueline K.** and Li, Yiting and Brandt, Timothy D. and Williams, Lauryn and Brandt, G. Mirek and Gelino, Christopher R., December 2021, ApJL, 922, 2, 10.3847/2041-8213/ac382c

106. PRECISE MASSES AND ORBITS FOR NINE RADIAL-VELOCITY EXOPLANETS, Li, Yiting and Brandt, Timothy D. and Brandt, G. Mirek and Dupuy, Trent J. and Michalik, Daniel and Jensen-Clem, Rebecca and Zeng, Yunlin and **Faherty, Jacqueline** and Mitra, Elena L., December 2021, AJ, 162, 6, 10.3847/1538-3881/ac27ab

105. ROSS 19B: AN EXTREMELY COLD COMPANION DISCOVERED VIA THE BACKYARD WORLDS: PLANET 9 CITIZEN SCIENCE PROJECT, Schneider, Adam C. and Meisner, Aaron M. and Gagn, Jonathan and **Faherty, Jacqueline K.** and Marocco, Federico and Burgasser, Adam J. and Kirkpatrick, J. Davy and Kuchner, Marc J. and Gramaize, Lopold and Rothermich, Austin and Brooks, Hunter and Vrba, Frederick J. and Bardalez Gagliuffi, Daniella and Caselden, Dan and Cushing, Michael C. and Gelino, Christopher R. and Line, Michael R. and Casewell, Sarah L. and Debes, John H. and Aganze, Christian and Ayala, Andrew and Gerasimov, Roman and Gonzales, Eileen C. and Hsu, Chih-Chun and Kiman, Rocio and Popinchalk, Mark and Theissen, Christopher and Backyard Worlds: Planet 9 Collaboration, November 2021, ApJ, 921, 2, 10.3847/1538-4357/ac1c75

104. CLOUD BUSTING: ENSTATITE AND QUARTZ CLOUDS IN THE ATMOSPHERE OF 2M2224-0158, Burningham, Ben and **Faherty, Jacqueline K.** and Gonzales, Eileen C. and Marley, Mark S. and Visscher, Channon and Lupu, Roxana and Gaarn, Josefine and Fabienne Bieger, Michelle and Freedman, Richard and Saumon, Didier, September 2021, MNRAS, 506,2, 10.1093/mnras/stab1361

103. EVALUATING ROTATION PERIODS OF M DWARFS ACROSS THE AGES, Popinchalk, Mark and **Faherty, Jacqueline K.** and Kiman, Rocio and Gagn, Jonathan and Curtis, Jason L. and Angus, Ruth and Cruz, Kelle L. and Rice, Emily L., August 2021, ApJ, 916, 2, 77, 10.3847/1538-4357/ac0444

102. A NUMBER OF NEARBY MOVING GROUPS MAY BE FRAGMENTS OF DISSOLVING OPEN CLUSTERS, Gagn, Jonathan and **Faherty, Jacqueline K.** and Moranta, Leslie and Popinchalk, Mark, July 2021, ApJL, 915, 2, 10.3847/2041-8213/ac0e9a

101. THE ENIGMATIC BROWN DWARF WISEA J153429.75-104303.3 (A.K.A. "THE ACCIDENT"), Kirkpatrick, J. Davy and Marocco, Federico and Caselden, Dan and Meisner, Aaron M. and **Faherty, Jacqueline K.** and Schneider, Adam C. and Kuchner, Marc J. and Casewell, S. L. and Gelino, Christopher R. and Cushing, Michael C. and Eisenhardt, Peter R. and Wright, Edward L. and Schurr, Steven D., July 2021, ApJL, 915, 1, 10.3847/2041-8213/ac0437

100. DISCOVERY OF A LOW-MASS COMOVING SYSTEM USING NOIRLAB SOURCE CATALOG DR2, Kiwy, Frank and **Faherty, Jacqueline** and Meisner, Aaron and Schneider, Adam C. and Kuchner, Marc and Kirkpatrick, J. Davy and Backyard Worlds: Planet 9 Collaboration, August 2021, RNAAS, 5, 8, 10.3847/2515-5172/ac1f9c

99. IDENTIFICATION OF A WHITE DWARF COMPANION IN THE V* HP DRA SYSTEM, Jalowiczor, Peter A. and Casewell, Sarah and Schneider, Adam C. and **Faherty, Jacqueline K.** and Kuchner, Marc J., July 2021, RNAAS, 5, 7, 10.3847/2515-5172/ac151f

- 98.** DISCOVERY OF 34 LOW-MASS COMOVING SYSTEMS USING NOIRLAB SOURCE CATALOG DR2, Kiwy, Frank and **Faherty, Jacqueline K.** and Meisner, Aaron and Schneider, Adam C. and Kirkpatrick, J. Davy and Kuchner, Marc J. and Burgasser, Adam J. and Casewell, Sarah and Kiman, Rocio and Calamari, Emily and Aganze, Christian and Hsu, Chih-Chun and Sainio, Arttu and Thakur, Vinod and The Backyard Worlds: Planet 9 Collaboration, *AJ*, 164(1):3, July 2022
- 97.** INVESTIGATING 2M1155-7919B: A NEARBY, YOUNG, LOW-MASS STAR ACTIVELY ACCRETING FROM A NEARLY EDGE-ON, DUSTY DISK, D. Annie Dickson-Vandervelde, Joel H. Kastner, Jonathan Gagne, Adam C. Schneider, **Jacqueline Faherty**, Emily C. Wilson, Francois Menard, and Christophe Pinte, *AJ*, 164(5):227, November 2022.
- 96.** NEW CORONAE AND STELLAR ASSOCIATIONS REVEALED BY A CLUSTERING ANALYSIS OF THE SOLAR NEIGHBORHOOD, Leslie Moranta, Jonathan Gagne, Dominic Couture, and **Jacqueline K. Faherty**, *ApJ*, submitted, March 2022; *ApJ*, 939(2):94, November 2022.
- 95.** CHARACTERIZING THE 3D KINEMATICS OF YOUNG STARS IN THE RADCLIFFE WAVE, Alan J Tu, Catherine Zucker, Joshua S Speagle, Angus Beane, Alyssa Goodman, Joaoa Alves, **Jacqueline Faherty**, Andreas Burkert, *ApJ*, 936(1):57, September 2022.
- 94.** WDWARFDATE: A PYTHON PACKAGE TO DERIVE BAYESIAN AGES OF WHITE DWARFS, Rocio Kiman, Siyi Xu, **Jacqueline Faherty**, Jonathan Gagne, Ruth Angus, Timothy Brandt, Sarah Casewell, Kelle Cruz, *AJ*, 164(2):62, August 2022.
- 93.** DISENTANGLING THE SIGNATURES OF BLENDED-LIGHT ATMOSPHERES IN L/T TRANSITION BROWN DWARFS, Afra Ashraf, Daniella Bardalez Gagliuffi, Elena Manjavacas, Johanna Vos, Claire Mechemann, **Jacqueline Faherty**, *ApJ*, 934(2):178, August 2022.
- 92.** CALIBRATION OF THE H α AGE-ACTIVITY RELATION FOR M DWARFS Kiman, Rocio and **Faherty, Jacqueline K.** and Cruz, Kelle L. and Gagn, Jonathan and Angus, Ruth and Schmidt, Sarah J. and Mann, Andrew W. and Bardalez Gagliuffi, Daniella C. and Rice, Emily, *AJ*, 2021, 161, 6.
- 91.** DISCOVERY OF A NEARBY YOUNG BROWN DWARF DISK Schutte, Maria C. and Lawson, Kellen D. and Wisniewski, John P. and Kuchner, Marc J. and Silverberg, Steven M. and **Faherty, Jacqueline K.** and Bardalez Gagliuffi, Daniella C. and Kiman, Rocio and Gagn, Jonathan and Meisner, Aaron and Schneider, Adam C. and Bans, Alissa S. and Debes, John H. and Kovacevic, Natalie and Bosch, Milton K. D. and Durantini Luca, Hugo A. and Holden, Jonathan and Hyogo, Michiharu and Disk Detective Collaboration, *AJ*, 2020, 160, 4.
- 90.** EXPANDING THE Y DWARF CENSUS WITH SPITZER FOLLOW-UP OF THE COLDEST CATWISE SOLAR NEIGHBORHOOD DISCOVERIES, Meisner, Aaron M. and Caselden, Dan and Kirkpatrick, J. Davy and Marocco, Federico and Gelino, Christopher R. and Cushing, Michael C. and Eisenhardt, Peter R. M. and Wright, Edward L. and **Faherty, Jacqueline K.** and Koontz, Renata and Marchese, Elijah J. and Khalil, Mohammed and Fowler, John W. and Schlafly, Edward F.
- 89.** EXPLORING THE EVOLUTION OF STELLAR ROTATION USING GALACTIC KINEMATICS Angus, Ruth and Beane, Angus and Price-Whelan, Adrian M. and Newton, Elisabeth and Curtis, Jason L. and Berger, Travis and van Saders, Jennifer and Kiman, Rocio and Foreman-Mackey, Daniel and Lu, Yuxi Lucy and Anderson, Lauren and **Faherty, Jacqueline K.**, *AJ*, 2020, 160, 2.

88. IMPROVED INFRARED PHOTOMETRY AND A PRELIMINARY PARALLAX MEASUREMENT FOR THE EXTREMELY COLD BROWN DWARF CWISEP J144606.62-231717.8

Marocco, Federico and Kirkpatrick, J. Davy and Meisner, Aaron M. and Caselden, Dan and Eisenhardt, Peter R. M. and Cushing, Michael C. and **Faherty, Jacqueline K.** and Gelino, Christopher R. and Wright, Edward L., *ApJL*, 2020, 888, 2.

87. OBSERVATIONS OF DISEQUILIBRIUM CO CHEMISTRY IN THE COLDEST BROWN DWARFS

Miles, Brittany E. and Skemer, Andrew J. I. and Morley, Caroline V. and Marley, Mark S. and Fortney, Jonathan J. and Allers, Katelyn N. and **Faherty, Jacqueline K.** and Geballe, Thomas R. and Visscher, Channon and Schneider, Adam C. and Lupu, Roxana and Freedman, Richard S. and Bjoraker, Gordon L., *AJ*, 2020, I 60, 2.

86. PAST, PRESENT AND FUTURE STARS THAT CAN SEE EARTH AS A TRANSITING EXOPLANET

Kaltenegger, L. and **Faherty, J. K.**, *Nature*, 2021, 594, 7864.

RETRIEVAL OF THE D/SDL7+T7.5P BINARY SDSS J1416+1348AB

Gonzales, Eileen C. and Burningham, Ben and **Faherty, Jacqueline K.** and Cleary, Colleen and Visscher, Channon and Marley, Mark S. and Lupu, Roxana and Freedman, Richard, *ApJ*, 2020, 905, I.

85. SPITZER FOLLOW-UP OF EXTREMELY COLD BROWN DWARFS DISCOVERED BY THE BACKYARD WORLDS: PLANET 9 CITIZEN SCIENCE PROJECT

Meisner, Aaron M. and **Faherty, Jacqueline K.** and Kirkpatrick, J. Davy and Schneider, Adam C. and Caselden, Dan and Gagn, Jonathan and Kuchner, Marc J. and Burgasser, Adam J. and Casewell, Sarah L. and Debes, John H. and Artigau, tienne and Bardalez Gagliuffi, Daniella C. and Logsdon, Sarah E. and Kiman, Rocio and Allers, Katelyn and Hsu, Chih-chun and Wisniewski, John P. and Allen, Michaela B. and Beaulieu, Paul and Colin, Guillaume and Durantini Luca, Hugo A. and Goodman, Sam and Gramaize, Lopold and Hamlet, Leslie K. and Hinckley, Ken and Kiwy, Frank and Martin, David W. and Pendrill, William and Rothermich, Austin and Sainio, Arttu and Schmann, Jrg and Andersen, Nikolaj Stevnbak and Tanner, Christopher and Thakur, Vinod and Thvenot, Melina and Walla, Jim and Wedracki, Zbigniew and Aganze, Christian and Gerasimov, Roman and Theissen, Christopher and Backyard Worlds: Planet 9 Collaboration, *ApJ*, 2020, 899, 2.

84. SPITZER VARIABILITY PROPERTIES OF LOW-GRAVITY L DWARFS

Vos, Johanna M. and Biller, Beth A. and Allers, Katelyn N. and **Faherty, Jacqueline K.** and Liu, Michael C. and Metchev, Stanimir and Eriksson, Simon and Manjavacas, Elena and Dupuy, Trent J. and Janson, Markus and Radigan-Hoffman, Jacqueline and Crossfield, Ian and Bonnefoy, Mickal and Best, William M. J. and Homeier, Derek and Schlieder, Joshua E. and Brandner, Wolfgang and Henning, Thomas and Bonavita, Mariangela and Buenzli, Esther, *AJ*, 2020, I 60, I.

83. THE CATWISE2020 CATALOG

Marocco, Federico and Eisenhardt, Peter R. M. and Fowler, John W. and Kirkpatrick, J. Davy and Meisner, Aaron M. and Schlafly, Edward F. and Stanford, S. A. and Garcia, Nelson and Caselden, Dan and Cushing, Michael C. and Cutri, Roc M. and **Faherty, Jacqueline K.** and Gelino, Christopher R. and Gonzalez, Anthony H. and Jarrett, Thomas H. and Koontz, Renata and Mainzer, Amanda and Marchese, Elijah J. and Mobasher, Bahram and Schlegel, David J. and Stern, Daniel and Teplitz, Harry I. and Wright, Edward L., *ApJs*, 2021, 253, I.

82. THE FIELD SUBSTELLAR MASS FUNCTION BASED ON THE FULL-SKY 20 PC CENSUS OF 525 L, T, AND Y DWARFS (ARTICLE)

Kirkpatrick, J. Davy and Gelino, Christopher R. and **Faherty, Jacqueline K.** and Meisner, Aaron M. and Caselden, Dan and Schneider, Adam C. and Marocco, Federico and Cayago, Alfred J. and Smart, R. L. and Eisenhardt, Peter R. and Kuchner, Marc J. and Wright, Edward L. and Cushing,

Michael C. and Allers, Katelyn N. and Bardalez Gagliuffi, Daniella C. and Burgasser, Adam J. and Gagn, Jonathan and Logsdon, Sarah E. and Martin, Emily C. and Ingalls, James G. and Lowrance, Patrick J. and Abrahams, Ellianna S. and Aganze, Christian and Gerasimov, Roman and Gonzales, Eileen C. and Hsu, Chih-Chun and Kamraj, Nikita and Kiman, Rocio and Rees, Jon and Theissen, Christopher and Ammar, Kareem and Andersen, Nikolaj Stevnbak and Beaulieu, Paul and Colin, Guillaume and Elachi, Charles A. and Goodman, Samuel J. and Gramaize, Lopold and Hamlet, Leslie K. and Hong, Justin and Jonkeren, Alexander and Khalil, Mohammed and Martin, David W. and Pendrill, William and Pumphrey, Benjamin and Rothermich, Austin and Sainio, Arttu and Stenner, Andres and Tanner, Christopher and Thevenot, Melina and Voloshin, Nikita V. and Walla, Jim and Wedracki, Zbigniew and Backyard Worlds: Planet 9 Collaboration, ApJs, 2021, 253, I.

81. THE μ TAU ASSOCIATION: A 60 MYR OLD COEVAL GROUP AT 150 PC FROM THE SUN (ARTICLE)

Gagn, Jonathan and David, Trevor J. and Mamajek, Eric E. and Mann, Andrew W. and **Faherty, Jacqueline K.** and Bdard, Antoine, ApJ, 2020, 903, 2.

80. WISEA J083011.95+283716.0: A MISSING LINK PLANETARY-MASS OBJECT

Bardalez Gagliuffi, Daniella C. and **Faherty, Jacqueline K.** and Schneider, Adam C. and Meisner, Aaron and Caselden, Dan and Colin, Guillaume and Goodman, Sam and Kirkpatrick, J. Davy and Kuchner, Marc and Gagn, Jonathan and Logsdon, Sarah E. and Burgasser, Adam J. and Allers, Katelyn and Debes, John and Wisniewski, John and Rothermich, Austin and Andersen, Nikolaj Stevnbak and Thvenot, Melina and Walla, Jim and Backyard Worlds: Planet 9 Collaboration, ApJ, 2020, 895, 2.

79. WISEA J041451.67-585456.7 AND WISEA J181006.18-101000.5: THE FIRST EXTREME T-TYPE SUBDWARFS?

Schneider, Adam C. and Burgasser, Adam J. and Gerasimov, Roman and Marocco, Federico and Gagn, Jonathan and Goodman, Sam and Beaulieu, Paul and Pendrill, William and Rothermich, Austin and Sainio, Arttu and Kuchner, Marc J. and Caselden, Dan and Meisner, Aaron M. and **Faherty, Jacqueline K.** and Mamajek, Eric E. and Hsu, Chih-Chun and Greco, Jennifer J. and Cushing, Michael C. and Kirkpatrick, J. Davy and Bardalez-Gagliuffi, Daniella and Logsdon, Sarah E. and Allers, Katelyn and Debes, John H. and Backyard Worlds: Planet 9 Collaboration, ApJ, 2020, 898, I.

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.**; Gagne, 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, 2020, AJ, 160, 4.

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., 2020, ApJs, 247, 2.
- 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.; Lafreniere, 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, Genevieve, 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**; Anglada-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.; Opatom, 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.**; Kirkpatrick, 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
Cushing, Michael C.; Looper, Dagny.; Burgasser, Adam J.; Kirkpatrick, Davy; **Faherty, Jacqueline K.**; Cruz, Kelle.; Sweet, Anne; Sanderson, Robyn E.; 2009, ApJ, 696, 986.

White Papers

18. ACCELERATING AND SCALING MENTORING STRATEGIES TO BUILD INFRASTRUCTURE THAT SUPPORTS UNDERREPRESENTED GROUPS IN STEM. 2030STEM Collaboration, Jennifer D. Adams, David Asai, Ruth Cohen, Alonso Delgado, Stephanie Danette Preston, Jacqueline K. Faherty, Mand e Holford, Erich Jarvis, Marisela Martinez-Cola, Alfred Mays, Louis J. Muglia, Veeshan Narinesingh, Caprice Phillips, Christine Pfund, and Patricia Silveyra. arXiv e-prints, page arXiv:2302.13691, February 2023.
17. CHANGE: HOW SOCIAL MEDIA IS ACCELERATING STEM INCLUSION. 2030STEM Collaboration, Jennifer D. Adams, Carlotta A. Berry, Ruth Cohen, Alonso Delgado, Jacqueline K. Faherty, Eileen Gonzales, Mand e Holford, Ariangela J Kozik, Lydia Jennings, Alfred Mays, Louis J. Muglia, Nikea Pittman, and Patricia Silveyra. arXiv e-prints, page arXiv:2212.03245, December 2022.

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

Kastner, Joel; Allers, Katelyn; Bowler, Brendan; Currie, Thayne; Drake, Jeremy; Dupuy, Trent; Faherty, Jackie; Gagne, Jonathan; Liu, Michael; Mamajek, Eric, et al., 2019BAAS...51c.294. (Astro 2020 White paper)

12. SUBSTELLAR MULTIPLICITY THROUGHOUT THE AGES

Bardalez Gagliuffi, Daniella; Ward-Duong, Kimberly; **Faherty, Jacqueline**; Greenbaum, Alex; Marocco, Federico; Burgasser, Adam; Bate, Matthew; Dupuy, Trent; Gelino, Christopher; Sahlmann, Johannes, et al., 2019BAAS...51c.285. (Astro 2020 White paper)

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

Muirhead, Philip; Skinner, Julie N.; Radigan, Jacqueline; Triaud, Amaury; Theissen, Christopher; Bardalez Gagliuffi, Daniella; Tamburo, Patrick; Burgasser, Adam; **Faherty, Jacqueline**; Stephens, Denise, 2019BAAS...51c.169. (Astro 2020 White paper)

8. THE NEED FOR INFRARED ASTROMETRY OF BROWN DWARFS IN THE POST-GAIA ERA

Kirkpatrick, J. Davy; Abdurrahman, Fatima; Best, William M.; Dupuy, Trent J.; **Faherty, Jacqueline K.**; Henderson, Calen B.; Marocco, Federico; Mroz, Przemek; Sahlmann, Johannes; Smart, Richard L., et al., 2019BAAS...51c.105. (Astro 2020 White paper)

7. DISCOVERY OF COLD BROWN DWARFS OR FREE-FLOATING GIANT PLANETS CLOSE TO THE SUN

Leggett, Sandy; Apai, Daniel; Burgasser, Adam; Cushing, Michael; Dupuy, Trent; **Faherty, Jackie**; Gizis, John; Kirkpatrick, J. Davy; Marley, Mark; Morley, Caroline, et al., 2019BAAS...51c..95. (Astro 2020 White paper)

6. THE IMPORTANCE OF SUPPORTING ASTRONOMY EDUCATION RESEARCH, CURRICULUM REFORM, AND PROFESSIONAL DEVELOPMENT IN ASTRONOMY EDUCATION
Coble, Kim; Rector, Travis; Odekon, Mary Crone; GuhaThakurta, Raja; Bailey, Janelle; Rebull, Luisa; **Faherty, Jacqueline K.**; Corrales, Lia, 2019BAAS...51g.266. (Astro 2020 White paper)

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.

Selected 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.** LUHMANN 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 Bliet, 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, Christopher 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

Appearances	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 Appearances
	Inside Edition, Multiple Appearances

The Women of Marvel Podcast
 CUNY Science & U TV Multiple Appearances
 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 MANHATTANHENG
 ASTRONOMY LIVE: SKY TO SPACE
 MANHATTANHENG 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):
 MANHATTANHENG 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 based 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, Universit  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