

## LYNNE ANNE HILLENBRAND

[information current as of 2026, Mar.]

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### Education

UNIVERSITY OF MASSACHUSETTS

Ph.D. in Astronomy, 1995

PRINCETON UNIVERSITY

A.B. in Astrophysics, 1989

### Positions Held

CALIFORNIA INSTITUTE OF TECHNOLOGY

Professorial Faculty, Dec. 2000–present

CALIFORNIA INSTITUTE OF TECHNOLOGY

Postdoctoral Researcher (Fairchild Fellow), 1997–2000

UNIVERSITY OF CALIFORNIA – BERKELEY

Postdoctoral Researcher (Hubble Fellow), 1994–1997

### Primary Research Interests

→ Young Star Accretion Disks: star/disk interaction region; inner disk structure; accretion and outflow diagnostics; dust/gas disk structure, disk evolution timescales; episodic accretion outbursts

→ Young Stars: pre-main sequence evolution; stellar ages; fundamental mass/radius measurements; stellar angular momentum evolution; stellar activity; optical/infrared variability phenomenology and mechanisms.

→ Young Stellar Populations: cluster and sub-cluster kinematics; the initial mass function; stellar age dispersions; star formation histories.

→ Young Exo-Planets: planet formation in disks; exoplanet detection around young stars; debris disks

### Memberships

- International Astronomical Union (Divisions B, G/G1/G3, and H)
- American Association for the Advancement of Science (Section D - Fellow)
- Astronomical Society of the Pacific
- U.S. National Academies “National Associate” [Honorary]

### Astronomy Community Service Work

#### [currently involved]

- AAAS Chair of Section D, Astronomy (2025-2027 - *elected position*)
- AURA Member Representative, Caltech (2019-present)
- ASP Publications Committee (2011-present)
- Las Cumbres Observatory Science Advisory Committee (2006-present)

#### [past 10 years]

- IAU U.S. National Committee (2017 Past Chair, 2014-2016 Chair, 2010-2013 Vice Chair, 2007-2010 USNC Member - *elected position through AAS*)

- NAS/NRC: Report Reviewer (various); National Academies Intelligence Science and Technology Experts Group (2015-2022); Committee for “A Strategy to Optimize the U.S. OIR System in the Era of the LSST” (2014-2015; Elmegreen); Committee on Astronomy and Astrophysics - CAA (2012-2015, 2005-2008);
- NSF: Committee of Visitors to Astronomy Division (2023); Committee of Visitors to Physics Division (2023); Mathematics and Physical Sciences Advisory Committee (2016-2023)
- NASA: WFIRST Independent External Technical / Management / Cost Review (WIETR, 2017); Cosmic Origins Program Analysis Group (COPAG, 2011-2015);
- AAAS: Member-at-Large for Astronomy Section D (2018-2022 - *elected position*)
- AAS: Committee on Astronomy and Public Policy (2011-2016);
- AURA: Board of Directors (2012-2018; 2006-2008 - *elected position*)
- Science Steering Committees: W.M. Keck Telescopes Science Steering Committee (2013-2025, 2002-2008)
- International Funding Peer Reviews: Chilean National Research and Development Agency / FONDECYT (2023, 2021); Flemish Methusalem funding (2023); German Research Foundation DFG (2023, 2021, 2017, 2015); Netherlands NWO (2022, 2014, 2010, 2004); European Research Council, ERC (2021, 2020, 2019, 2018, 2016, 2014); Austrian Academy of Sciences (2020); Austrian Science Fund, FWF (2019, 2026); Belgian Research Council KU Leuven (2018); Israeli ISF (2017, 2006); UK Science and Technology Facilities Council STFC (2017); UK STFC Ernest Rutherford Fellows (2017); French ANR (2013); Canadian NSERC (2012)
- U.S. Funding Peer Reviews: Research Corporation (2021, 2016, 2012); NSF AAG panel (2014); NASA Postdoctoral Program (2013, 2011, 2008); NASA “Origins of Solar Systems” (2012, 2007-2010)
- International Prize Reviews: (redacted)
- Astronomy Department Visiting Committees: (redacted)
- Telescope Allocation Committees: Caltech Keck /Palomar (18 semesters over 20+ years); Liverpool Telescope External Reviewer (2019B); Australian Keck (2016A-2018A; 2018A Chair); CFHT External Reviewer (2016, 2014, 2013)
- Manuscript Referee: ARAA, ApJ, ApJL, AJ, PASP, A&A, MNRAS, Science, Nature, Nature Astronomy, PASJ (4-5 papers per year)
- Book Editor: Annual Reviews of Astronomy and Astrophysics Editorial Committee (2020 Guest Member)
- Conference Scientific Organizing Committees: “Infrared Spectroscopy from Space” (Oct 2025; Pasadena); “Eruptive Stars and Planet Formation” (Sept 2024; Santiago Chile); “UV Science and Instrumentation Workshop (May 2024; Pasadena); “Protostars and Planets VII” (April 2021 → 2022 → 2023, Kyoto Japan); “2022 Sagan Workshop: Exoplanet Science in the Gaia Era” (Jul 2022, Pasadena); “21st Cool Stars, Stellar Systems, The Sun” (June 2020 → 2022, Toulouse, France); “Massively Parallel Large Area Spectroscopy from Space” (May 2021, virtual/anywhere); “Accretion on all Scales”, 43rd COSPAR Scientific Assembly (August 2020 → 2021, Sydney Australia); “Celebrating the Legacy of the Spitzer Space Telescope” (Feb 2020, Pasadena); “Global Coordination of International Astrophysics and Heliophysics Activities from Space and Ground” (August 2018, Vienna IAU); “Ages<sup>2</sup>: Taking Stellar Ages to the Next Power” (September 2017, Elba); “Star Formation 2016” (August 2016, Exeter England); “TMT Science Forum” (May 2016, Kyoto, Japan); “K2 Science Conference” (November 2015, Santa Barbara); “Measuring Extreme Precision Radial Velocities” (July 2015, New Haven); “WISE at Five: Legacy and Prospects” (February 2015, Pasadena);

[>10 years ago]

- NAS/NRC: Panel on “Implementing Recommendations from the New Worlds, New Horizons Decadal Survey” (2010; Burrows); Decadal Survey Committee “New Worlds, New Horizons” a.k.a. Astro2010 (2008-2010; Blandford) – Exec. Committee; Committee on Astronomy and Astrophysics - CAA (2012-2015, 2005-2008); McKee/Taylor Decadal Survey Panel “UVOIR from Space” and Cross-Panel WG “Large Surveys” (1999-2001) ; “Failed Stars and Superplanets” Advisor (1997)

- AAAC: ExoPlanet Task Force (2007)
- NSF: NOAO/ALTAIR (2008-2009); MPS/AST Senior Review of Facilities (2005-2006; Blandford) - Exec. Committee
- NASA: Spitzer Science Center Oversight Committee (2010-2014); SMD Research and Analysis MOWG (2008); SSAC Astronomical Search for Origins Sub-Cmte (2001-2004) and Origins Roadmapping (2002)
- ASP: Astronomical Society of the Pacific Board of Directors (2004-2010 - *elected position*) - Vice President 2009-2010 - Publications Committee, (2011-2023; Chair 2007-2010) - Strategic Directions Committee (2010-2011) - Nominating Committee (2010-2013)
- Science Steering Committees: ; SOFIA (2001-2008)
- Users Committees: IPAC (2002-2005)
- Book Reviewer: Cambridge University Press; Pearson; IOP eBooks; Princeton University Press; Picture Window Books
- Conference Scientific Organizing Committees: “The Orion Nebula as a Paradigm of Star Formation” Mini-Workshop (Oct 2013, Baltimore); “Sagan Exoplanet Summer Workshop” (Jul 2013, Pasadena - later cancelled due to sequestration); “Science with the Next Generation Panoramic and Panchromatic Surveys” (Oct 2012, Garching); “Science with a Wide-field Infrared Telescope in Space” (Feb 2012, Pasadena); “New Light on Young Stars” (Oct 2008, Pasadena); “The Ages of Stars” (Oct 2008, Baltimore); “From Stars to Planets: “Connecting our Understanding of Star and Planet Formation” (2007, Gainesville); “14th Cool Stars, Stellar Systems, The Sun” (2006, Pasadena); “Planet Formation” (Dec 2004, Ringberg); “Spitzer – The First Year” (Nov 2004, Pasadena); “Beyond Spitzer: Future Far-IR Astronomy from Space” (Jun 2004, Pasadena); “The Formation and Evolution of Massive Young Star Clusters” (Nov 2003, Cancun); “The Orion Complex Revisited” (1997, Ringberg)

## Caltech Institute and Departmental Service Work

### [currently involved]

- Academic Freedom and Tenure Committee – 2023-2027; 2015-2019 (Chair 2018-2019, 2017-2018)
- Graduate Studies Committee – 2013-present (2022-2026 Chair)
- Undergraduate Admissions Committee – 2019-2026
- Astronomy Option Representative – 2013-present
- Astronomy Graduate Admissions Committee – 2021-2026, 2017, 2015/Chair, 2014, 2013/Chair, 2011, 2006/Chair, 2005, 2002, 2001
- IPAC Oversight Committee – 2008-present
- 3CPE Oversight Committee – 2026-present

### [previously]

- Faculty Board – 2003-2006 - *elected position* (Nominating Committee 2006, 2004/Chair)
- Search Committee, Director of Undergraduate Admissions – 2020
- Search Committee, Graduate Dean – 2020
- Membership and Bylaws Committee – 2013-2014
- Athletics and Physical Education Committee – 2004-2013
- Undergraduate Curriculum Committee – 2004-2008
- SURF Proposal Reviewer – 2024, 2023, 2022, 2017, 2016, 2015, 2012, 2011, 2010, 2008, 2003
- Student/Faculty Conference Committee for Ay/Ph/APh – 2017, 2013, 2011, 2009, 2007, 2005
- SFP Panels on Mentoring Undergraduate Researchers – 2016 – and Applying to Graduate School – 2023, 2024
- Freshmen Recruiting Contact – 2016, 2004, 2003
- Pre-Frosh Weekend Keynote Speaker – 2014, 2007
- Pre-Frosh Weekend Women in STEM Breakfast Reception and Roundtable – April 2015
- W.M. Keck Observatory Instrument Suite Evolution Working Group (co-chair) – 2024

- W.M. Keck Observatory Director Search Committee (co-chair) – 2023
- PMA Division Chair Search Committees – 2020, 2010, 2008
- PMA Graduate Fellowship Needs Committee – 2015
- PMA Strategic Planning Committee – 2010-2012
- Executive Officer, Astronomy – 2007-2012
- Astronomy Faculty Search Committee – 2015/2016 AY, 2014/2015 AY, 2013 (interim Chair), 2008-2011
- Astronomy Faculty Reconnaissance Committee – 2017 (co-Chair)
- Astrophysics Theory Faculty Search Committee (sub-committee of PMA Staffing) – 2003-2006
- Caltech-Carnegie Joint Brinson Postdoctoral Prize Fellowship Committee – 2022, 2023
- Astronomy Fellowships (Hubble/Einstein/Sagan/Jansky/NSF/etc) Contact – 2003-2012
- Astrophysics Strategy Committee (CASC) – 2022-2024
- Observatories/Astrophysics Council – 2000-2007 (Chair, 2007)
- Annual Keck Science Meeting Organizer – 2022, 2006 (assist.), 2005, 2004 (assist.), 2003, 2002 (assist.), 2001
- Astronomy Strategic Planning Committee – 2002-2003, 2007-2008
- Physics Strategic Planning Committee – 2001-2002
- Astronomy Postdoctoral Prize Fellowship Committee – 2010, 2007, 2004, 2001
- Astronomy Colloquium/Visitor Committee – 2019/2020, 2016/2017, 2006/2007, 2002/2003, 2001/2002, 2000/2001, 1999/2000

### **Caltech Teaching and Educational Activities**

- Ay 20, Basic Astronomy and the Galaxy (Fall 2024, Fall 2017 jointly with Kirby, 2015, 2014, Winter 2014, Fall 2003, 2002, 2001)
- Ay 30, Current Trends in Astronomy (Fall 2019 organizer; single evening host in Winter 2019, 2018, 2015, 2013, 2012, 2010, 2008, 2007, 2006, 2005, 2004, 2002, 2001)
- Ay 31, Writing in Astronomy (2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005)
- Core 1, Scientific Writing (Mentor in Winter-Spring 2004, Winter-Spring 2003, Fall-Winter 2002)
- Ay 78, Senior Thesis (AY 2024/2025, AY 2016/2017, 2015/2016, 2006/2007, 2005/2006, 2002/2003)
- Ay 101, Physics of Stars (Fall 2025, 2023, 2022, 2013, 2012, 2008, 2007, 2006, 2005, 2004)
- Ay 102, Physics of the Interstellar Medium (Winter 2022, 2021, 2020, Spring 2019, 2018, 2017)
- Ay 105, Astronomical Optical Instrumentation Laboratory (Spring 2021 jointly with Mawet, Spring 2012 jointly with Martin, 2011, 2010)
- Ay/Ge 107, Introduction to Astronomical Observation (Spring 2026, 2025, 2024, 2023, Fall 2021 - all jointly with de Kleer)
- Ay 111, Faculty Research (single lectures in 2023, 2022, 2021, 2017, 2015, 2013, 2011, 2009)
- Ay 122a, Astronomical Measurement - UV/O/IR (Fall 2011, 2010 jointly with Steidel)
- Ay 123, Structure and Evolution of Stars (Fall 2020 jointly with Kirby, Fall 2016)
- Ay 126, Interstellar and Intergalactic Medium (Spring 2019)
- Ay 141, Research Conference in Astronomy (Fall 2025, Spring 2017, Winter 2013, Winter 2011, Fall 2009, Winter 2007, Winter 2005, AY 2003/2004, AY 2002/2003)
- Ay 142, Research in Astronomy/Astrophysics (constantly, all terms)
- Ay 143, Reading and Independent Study (Spring 2004)
- Ay 198, Advanced Topics - Extrasolar Planets (Spring 2016 jointly with Batygin and Mawet)
- Ay 218, Advanced Topics - Precision Photometry (Spring 2009 jointly with Kulkarni)
- Ph 10, Frontiers in Physics: Faculty Research Presentations (single lectures in Fall 2018, Fall 2009, Fall 2005)
- Graduate Qualifying Exam Committee (Ex Officio as Option Rep every year but also regular member in 2020, 2017, 2016, 2015, 2013, 2008, 2003)

- Caltech Candidacy and Final Ph.D. Committees: 50+ students in Ay, Ph, PlSc, and APH (+9 of my own students)
- External Ph.D. Examination Committees: 2

### Caltech Research Advisees

→ Postdocs: Luke Bouma (2021-2024 - 51 Peg Fellow, now staff at IPAC); Jessica Spake (2021-2024 - 51 Peg Fellow; informal mentor, now staff at Carnegie); Min Fang (2019-2020, now faculty at Purple Mountain Observatory); Michael Kuhn (2018-2022, now faculty at U. Hertfordshire); Erik Petigura (2016-2018 - Hubble Fellow, informal mentor, now faculty at UCLA); Adric Riedel (2015-2017, now staff at STScI); Brendan Bowler (2012-2015, GPS Fellow, informal mentor, now faculty at UCSB); Nairn Baliber (2010-2016, now in industry); Scott Gregory (2010-2012, now faculty at Dundee); Sasha Hinkley (2009-2015 - Sagan Fellow, NSF Fellow, now faculty at Exeter); Justin Crepp (2009-2012, now faculty at Notre Dame); Jessica Lu (2008-2011 - Millikan Fellow, now faculty at UCB); Kelle Cruz (2007-2009 - NSF Fellow, now faculty at Hunter College); Gregory Herczeg (2005-2008, now faculty at KIAA Beijing); Scott Dahm (2005-2008 - NSF Fellow, now deputy director at Gemini); Russel White (2002-2005, now faculty at Georgia State U.); Sebastian Wolf (2002-2004, now faculty at U. Kiel).

→ Graduate Students: Facundo Perez Paolino (fall 2024 - present); Adolfo Carvalho (2025 PhD, now postdoc at Harvard/CfA); Trevor David (2017 PhD, postdoc at CCA/Flatiron, now in industry); Scott Barenfeld (fall 2012 - winter 2014); Masha Kleshcheva (GPS; summer 2011); Kunal Mooley (winter 2010 - summer 2011); Krzysztof Findeisen (2014 PhD, now staff at LSST); Ann Marie Cody (2011 PhD, now staff at NASA/Ames Research Center); Fabio Altenbach (winter 2006 - summer 2007, now private high school teacher); Adam Kraus (2009 PhD, now faculty at U. Texas); Francis O'Donovan (2007 PhD, postdoc at GSFC, now in software industry – supervised with D. Charbonneau); Catherine Slesnick (2007 PhD, Carnegie Fellow at DTM, now at Lincoln Labs); Joshua Eisner (2005 PhD, now faculty at Arizona); Stanimir Metchev (2005 PhD, now faculty at Western Ontario).

→ Undergraduate Students: Avni Bansal (winter 2025 to present), Evan Portnoi (AY 2024-2025); Luke Lamitina (AY 2024-2025, spring 2024), Diya Kumar (winter/spring/fall 2025, winter/spring 2024), Kshemaahna Nagi (fall 2024), Ramzi Saber (winter 2026?, spring 2025, fall 2024, winter 2023), Ahaan Shetty (summer 2024); Karen Zhou (summer 2024), Dharshini Anand (winter/spring 2024), Sujit Iyer (summer 2023), Miles Gee (winter 2023), Celine Boucher (winter 2022 to spring 2023), Ellen Min (winter 2021, spring 2021), Johnny Seebeck (summer 2020), Alexander Reeves (spring 2020, winter 2020), Viktor Koehlin Loevfors (summer 2019, summer 2022), June Kim (spring 2019), Arlindo Chan Borges (AY 2019/2020, summer 2019, summer 2018), Yuling Zhang (summer 2018), Philip Carr (summer 2018, 2017, 2016), Ismael Mireles (summer 2017, AY 2016/2017), Alex Denko (summer 2016), Celia Zhang (summer 2015), David Qu (AY 2017/2018, summer 2015, spring 2015), Lyra Cao (summer 2014 - summer 2017) Elly Shao, Amy Hu, Jessica Li (summer 2014), John Pharo, Dan DeFelippis, Ronnel Boettcher (summer 2012); Stephanie Laga (summer 2011); Jamie Tayar (AY 2011/2012, summer 2011, AY 2010/2011, summer 2010); Christopher Bilinski (AY 2010/2011); Joanna Robaszewski (summer 2010); Charles Kilpatrick, Danika Wellington, Anson Lam (summer 2009); Dan Feldman (summer 2008); Aaron Hoffer (AY 2007/2008) Chelsea Sharon (AY 2006/2007, summer 2006) Jessica Arnold (summer 2006); Julie Huang (summer 2005); Amber Swenson (AY 2005/2006, summer 2005, spring 2005); Andy Green (summer 2004); Jared Gabor (AY 2004/2005, AY 2003/2004, summer 2003, summer 2002); Francesca Colonnese (summer 2005, summer 2003); Sirin Caliskan, Julia Greissl (AY 2002/2003, summer 2002); Jonathan Foster (summer 2001); Bridget West (summer 1999); Kathryn Hill (summer 1998).

### Non-Caltech Research Advisees

→ Graduate Students: Camila Huanca Ordenes (Pontificia Universidad Catolica de Chile; winter 2022); Joe Ninan (Tata Institute of Fundamental Research; spring/summer 2016)

→ Undergraduate Students: Gautam Das (IISER Kolkata; summer 2024 to summer 2025); Tamojeet Roychowdhury (IIT Bombay; spring 2024 to spring 2025- remote); Kaan Evcimen (U. Cambridge; summer 2023 to present); Facundo Perez Paolino (Colgate; summer 2023); Alexandra Masegian (U. Chicago; summer 2022); Sally Jiang (Yale; summer 2022); Antonio Rodriguez (Stanford University; summer 2019); Aashish Gupta (IITDM Jabalpu, India; spring/ summer 2018); Brianna Thomas (Howard University; summer 2016)

→ High School Students: Armen Arakelian (summer 2024 - remote); Hanshi Yang (winter 2024 - remote); Hailey Tsuchiya (academic year 2022-2023); Thaddaeus Kiker and the Harriton HS astronomy club (academic year 2020-2021); Reese Owen (summer 2019, academic year 2019-2020); Ariel Langer (academic year 2017, summer 2017); Nathan Lin, Katie O'Neill, Declan Saviano (summer 2016)

**Publications (in reverse order of submission date)**

\* = contribution was refereed

- \*395. “The FUor Mass Distribution Matches the Solar Neighborhood IMF: Evidence for a Universal Eruptive Phase”  
A.S. Carvalho & L.A. Hillenbrand, 2026, ApJ, submitted.
- \*394. “Quantitative Spectroscopic Diagnostics for FU Orionis-Type Young Stellar Objects”  
E.R. Portnoi, L.A. Hillenbrand, & A.S. Carvalho, 2026, ApJ, submitted.
- \*393. “SPHEREEx as a frontier for infrared transients: Classification of new Galactic FU Ori outbursts and classical novae” V.R. Karambelkar., K. De, L.A. Hillenbrand, J.L. Sokoloski, & D. Frostig, 2026, ApJL 1000, 8.
- \*392. “Older Ages for 23 Pre-Main Sequence Stars in Upper Scorpius Using Dynamical Mass-Constrained Stellar Evolutionary Models”  
A.P.M. Towner, J.A. Eisner, P.D. Sheehan, L.A. Hillenbrand, & Y.-L. Wu, 2026, ApJ 999, 145.
- \*391. “A Parameterized YSO Accretion Disk Model with Increasing Accretion Rate: Predicted Outburst Lightcurves”  
G. Das, L.A. Hillenbrand, A.S. Carvalo, 2026, ApJ, refereed.
- \*390. “The circumstellar environment of the young, low-mass dipper star JH 223: Accretion and large-scale magnetic field topology”  
T.P. Freitas, J. Bouvier, B. Zaire +13 additional coauthors including L.A. Hillenbrand, 2025, A&A, refereed.
- 389. “A New FU Orionis Accretion Outburst in the W5 HII Region”  
L.A. Hillenbrand, M.J. Graham, M.M. Kasliwal, J. Purdum, J. Sollerman, A.S. Carvalho, M.A. Kuhn, R. Smith, +4 additional coauthors, 2025, RNAAS, 9, 316.
- \*388. “Separating Photospheric and Starspot Magnetic Fields in Pre-Main-Sequence Stars Using IGRINS Spectroscopy”  
F. Perez Paolino, L.A. Hillenbrand, J. Bary, 2025, ApJ, 992, 33.
- \*387. “Multi-color characterization of optically invisible FU Orionis-type outbursts: Demonstration and prospects for the WINTER survey”  
D. Frostig, K. De, L.A. Hillenbrand, +6 additional coauthors, 2026, ApJ 997, 263.
- \*386. “A spectral library and census of near-infrared stellar large-amplitude variables from Palomar Gattini-IR”  
N. Earley, V. Karambelkar, M. Kasliwal, K. De, R. Soria, L. Hillenbrand, A. Suresh, M.C.B. Ashley, M.J. Hankins, A.M. Moore, J. Soon, & T. Travouillon, 2025, PASP, 137, 114205.
- \*385. “The Optical Photometric Variability of Herbig Ae/Be Stars from TESS”  
A.M. Cody, L.A. Hillenbrand, S. Chandragiri, M. Morgan, 2025, ApJ, 994, 253.
- \*385. “The Outbursting YSOs Catalogue (OYCAT)”  
C. Contreras Pena, J.-E. Lee, G. Herczeg +40 additional coauthors including L.A. Hillenbrand, 2025, JKAS, 58, 209.
- \*383. “The Hot Inner AU of V883 Ori”  
A.S. Carvalho, L.A. Hillenbrand, A. Kospal, & M.S. Connelley, 2025, ApJ, 993, 38.
- \*382. “Seeking Kinematic Association of Known FU Orionis Stars with Young Clusters in Cygnus”  
T. Roychowdhury & L.A. Hillenbrand, 2025, PASP, 137, 104204

- \*381. “The Near-Ultraviolet Spectra of FU Orionis Accretion Disks”  
A.S. Carvalho, [L.A. Hillenbrand](#), K. France, & G.J. Herczeg, 2025, ApJ, 994, 12.
- \*380. “Starspot Morphology and Dynamo Transitions on the Pre-Main Sequence: Insights from the X-Shooter WTTS Library”  
F. Perez Paolino, J.S. Bary, [L.A. Hillenbrand](#), B. Horner, & A. Carvalho, 2025, ApJ, 990, 205.
- \*379. “Continued Photometric Monitoring Supports Long-Term Dynamical Evolution in the Young Binary Star-Disk System KH 15D”  
L. Lamitina, [L. Hillenbrand](#), & M. Poon, 2025, AJ 170, 79.
- \*378. “Dynamical Masses for 23 Pre-Main Sequence Stars in Upper Scorpius: A Critical Test of Stellar Evolutionary Models”  
A.P.M. Towner, J.A. Eisner, P.D. Sheehan, [L.A. Hillenbrand](#), & Y.L. Wu, 2025, ApJ, 994, 214.
- \*377. “A young progenitor for the most common planetary systems in the Galaxy”  
J.H. Livingston, E.A. Petigura, T.J. David +26 additional coauthors including [L.A. Hillenbrand](#), 2026, Nature, 649, 310.
- \*376. “FUOr-Aur 0544+3330: A New YSO Outburst in the Outskirts of Auriga OB1, Viewed Face-On”  
[L.A. Hillenbrand](#), A.S. Carvalho, D. Stern, M. Connolley, F. Perez Paolino, A. Shetty, Z. Milby, 2025, ApJ 988, 77
375. “Rosette Nebula outburst Gaia 24djk from the Young Stellar Object V557 Mon”  
A.S. Carvalho & [L.A. Hillenbrand](#), 2025, RNAAS 9, 38.
- \*374. “Starspots as an Explanation for the Mysterious IYJ Continuum Excess Emission in Classical T Tauri Stars”  
F. Perez Paolino, J.S. Bary, [L.A. Hillenbrand](#), M. Markham, & W. Fischer, 2025, ApJ 978, 32
- \*373. “Bolometric Corrections for FU Ori Accretion Disk Luminosities”  
A. Carvalho, [L.A. Hillenbrand](#), 2024, ApJ, 976, 5
372. “The FUV Spectrum of FU Ori South”  
A. Carvalho, G. Herczeg, K. France, & [L.A. Hillenbrand](#), 2024, RNAAS, 8, 232.
- \*371. “A Far-Ultraviolet-Detected Accretion Shock at the Star-Disk Boundary of FU Ori”  
A. Carvalho, [L.A. Hillenbrand](#), K. France, G. Herczeg, 2024, ApJL, 973, 40.
370. “SIRMOS: NIR spectroscopy of 131,000,000 galaxies over  $1 < z < 4$  at R=1300 ”  
R. Content, Y. Wang, M. Robberto, +28 additional coauthors including [L. Hillenbrand](#), 2024, Proc. SPIE, 13092
369. “Innovations and advances in instrumentation at the W. M. Keck Observatory, vol. III ”  
M. Kassis +82 additional coauthors including [L. Hillenbrand](#), 2024, Proc. SPIE, 13096
- \*368. “Ages of Stars and Planets in the Kepler Field Younger than Four Billion Years”  
L.G. Bouma, [L.A. Hillenbrand](#), A.W. Howard, H. Isaacson, K. Masuda, & E.K. Paumbo, 2024, AJ, 976, 234
367. “Kinematic Association of Two FU Orionis Stars with Young Clusters in Orion”  
T. Roychowdhury & [L.A. Hillenbrand](#), 2024, RNAAS, 8, 171
- \*366. “The First Palomar Gattini-IR catalog of J-band light curves: Construction and public data release”  
S. Murakawa, K. De, M.C.B. Ashley, N. Earley, [L.A. Hillenbrand](#), +5 additional co-authors, 2024, PASP, 136, 104501

- \*365. “SDSS-V Local Volume Mapper (LVM): A Glimpse into Orion”  
K. Kreckel, O.V. Egorov, E. Egorova, G.A. Blanc, N. Drory, +34 additional co-authors including L.A. Hillenbrand, 2024, A&A, 689, 352.
- \*364. “A Dust-Trapping Ring in the Planet-Hosting Disk of Elias 2-24”  
A.S. Carvalho, L.M. Perez, A. Sierra, M.J. Mellado, L.A. Hillenbrand, +10 additional co-authors, 2024, ApJ, 971, 129
- \*363. “An Expanding Accretion Disk and a Warm Disk Wind as Seen in the Spectral Evolution of the FU Ori Object HBC 722”  
A. Carvalho, L.A. Hillenbrand, J. Seebeck, K. Covey, 2024, ApJ, 971, 44.
- \*362. “The Effect of Starspots on Spectroscopic Age and Mass Estimates of T Tauri Stars in the Taurus-Auriga Star Forming Region: Weak-Lined T Tauri Stars”  
F. Perez Paolino, J.S. Bary, L.A. Hillenbrand, & M. Markham, 2024, ApJ, 967, 45
- \*361. “The ZTF Source Classification Project: III. A Catalog of Variable Sources”  
B.F. Healy, M.W. Coughlin, A.A. Mahabal, T.J. du Laz, A. Drake, M.J. Graham, L.A. Hillenbrand, J. van Roestel, P. Szkody, +15 additional co-authors, 2024, ApJS, 272, 14
- \*360. “The Emerging Stellar Complex in Mon R2: Membership and Optical Variability Classification”  
S. Jiang & L. Hillenbrand, 2024, AJ, 167, 221
- \*359. “New insights on the accretion properties of Class 0 protostars using 2 micron spectroscopy”  
V.J.M. Le Gouellec, T. Greene, L. Hillenbrand & Z. Yates, 2024, ApJ, 966, 91
- \*358. “ABYSS II: Identification of young stars in optical SDSS spectra and their properties”  
S. Saad, K. Lane, M. Kounkel, K.G. Stassun, R. Lopez-Valdivia +7 additional co-authors including L.A. Hillenbrand, 2024, AJ, 167, 125
- \*357. “WTP 10aaaouw: Discovery of a new FU Ori outburst towards the RCW 49 HII region in NEO-WISE”  
V. Tran, K. De, & L. Hillenbrand, 2024, MNRAS, 530, 2076
- \*356. “Transient Corotating Clumps Around Adolescent Low-Mass Stars from Four Years of TESS”  
L.G. Bouma, R. Jayaraman, S. Rappaport, L.M. Rebull, L.A. Hillenbrand +4 additional co-authors, 2024, AJ, 167, 38
- \*355. “RNO 54: A Previously Unappreciated FU Ori Star”  
L.A. Hillenbrand, A. Carvalho, J. van Roestel, K. De 2023, ApJL, 958, L27
- \*354. “Disk Cooling and Wind Lines As Seen In the Spectral Line Evolution of V960 Mon”  
A. Carvalho, L.A. Hillenbrand, J. Seebeck, 2023, ApJ, 958, 140
- \*353. “Spectral Evolution of the Young Star V1741 Sgr During its The 2022-2023 Accretion Outburst”  
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### Co-Authorship on Significant Reports

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## Other Position Papers

- “Illuminating the Physics of Cosmic Origin and Evolution: SIRMOS: Satellite for InfraRed Multi-Object Spectroscopy” F. Beutler et al. A UK Space Frontiers 2035 White Paper. (<https://arxiv.org/abs/2601.16761>)
- “UV Science and Instrumentation Workshop: On the Way to the NASA Habitable Worlds Observatory and Beyond” S. Nikzad, A. Youngblood, E. Shkolnik, B. Mennesson, S. Hosseini, L. Hillenbrand, E. Hamden, R. Beaton, A. Alavi, K. France, S. Stierwalt, P. Scowen, L. Moustakas, C. Beichman, D. Ardila, P. Kurczynski, 2025, JATIS 11, 4, 042232 (<https://doi.org/10.1117/1.JATIS.11.4.042232>)
- “The development of HISPEC for Keck and MODHIS for TMT: science cases and predicted sensitivities” Q. Konopacky et al. 2023, Proc. SPIE, 12680, 1268007
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- Young Pre-Main Sequence Stars: Accretion/Outflow, Planet Formation, and Contraction/Spin-Up on the Active Journey to a Main Sequence Life of Boredom” L. Hillenbrand 2019, BAAS 51, 375 (<https://baas.aas.org/>)
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- “Building galaxies, stars, planets and the ingredients for life between the stars: The science behind the European Ultraviolet-Visible Observatory (EUVO)” A.I. Gomez de Castro et al. (37 co-authors including L.A. Hillenbrand) 2014, Astrophysics and Space Science, Special Issue UV Astronomy 354, 229 (astro-ph/1306.3358)
- “Airships: A New Horizon for Science,” S.H. Miller, R. Fesen, L. Hillenbrand, J. Rhodes + 32 additional co-authors) 2014, report for the Keck Institute for Space Studies (astro-ph/1402.6706)
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## Presentations (past 10 years only)

- Departmental Colloquia:
  - University of California, San Diego – Feb 2025
  - University of Geneva – Mar 2023
  - Indiana University – Apr 2023
  - Herzberg Institute of Astrophysics – Apr 2021
  - University of Massachusetts, Amherst – Feb 2021
  - ESAC, Madrid – Mar 2019
  - Ohio State – Nov 2018
  - Boston University – Oct 2018
  - University of Chicago – Mar 2017
  - Princeton University – Feb 2016
  - Las Cumbres Observatory Global Telescope – Jun 2015
  - Cornell University – Apr 2015
  - University of Victoria + UBC + HIA – Mar 2015

- National Radio Astronomy Observatory, Socorro – Jan 2015
- U. California, Los Angeles – Jan 2015
- Yale University – Apr 2014
- Cal Poly Pomona – Oct 2013
- U. Arizona – Sep 2013
- U.C. Berkeley – Apr 2013
- Space Telescope Science Institute – Apr 2012
- Harvard ITC – Feb 2012
- Non-Colloquium Departmental Talks:
  - College of Charleston, seminar in undergraduate course - Apr 2024
  - Stanford, KIPAC-LSSST Seminar - Jul 2020
  - CENTRA/IST, University of Lisbon, Seminar - Mar 2019
  - ESAC/CAB, Madrid, Seminar - Mar 2019
  - IPAG, Grenoble, Morning Seminar - Mar 2019
  - University of Arizona Lunch Seminar - Feb 2018
  - Boston University Lunch Seminar - Sep 2013
  - Goddard Space Flight Center Stellar and Extragalactic Astronomy Lecture – Apr 2012
- Invited Talks at Conferences, Meetings and Workshops:
  - “Eruptive Stars and Planet Formation” – Sept 2024; Santiago (Conference Summary)
  - “Global Coordination of Ground and Space Astrophysics @IAU-GA” – August 2024, Capetown
  - “Palomar Science Meeting 2023” – June 2023; Pasadena
  - “Star Formation from Clouds to Disks” – October 2021, Dublin
  - “Sagan Summer Workshop” – July 2021, online
  - “Massively Parallel Large Area Spectroscopy from Space” – May 2021, online
  - “Understanding the Nearby Star Forming Universe (with JWST)” – Aug. 2019
  - “Gaia’s View of Pre-Main Sequence Evolution: Linking T Tauri and Herbig Ae/Be stars” – Jun. 2019
  - “Planet-Forming Disks”, A workshop to honor Antonella Natta – Mar. 2019
  - “A revolution in stellar physics with Gaia and large surveys” – Sep. 2018
  - Jansky Fellow Symposium – Mar. 2018 Keynote Speaker
  - “Star Formation in Space and Time” – Jun. 2017
  - Gordon Conference on “Origins of Solar Systems” – Jul. 2015
  - 2014 Sagan Summer Workshop: “Imaging Planets and Disks” – Jul. 2014
  - “WFIRST Special Session” at AAS – Jan. 2014
  - “Orion Nebula Cluster Mini-Workshop” – Oct. 2013
  - “Science with a Wide-Field Infrared Telescope in Space” – Feb. 2012
  - “Star Formation Across Space and Time” – Apr. 2011
  - “Building on ‘New World, New Horizons’: New Science at Sub-Millimeter to Meter Wavelengths” – Mar. 2011
- Other Recent Talks at Conferences, Meetings, Workshops:
  - International Astronomical Union General Assembly (Division G)– Aug. 2024 (Title: Hour-to-Decade+ Variability in Young Stellar Objects)