LYNNE ANNE HILLENBRAND
(information current as of 2024, Apr.)

Office Contact:
California Institute of Technology
PMA / Astronomy
MS 249-17
Pasadena, CA 91125
626–395–6587
lah@astro.caltech.edu

Home Contact:
[upon request]

Pasadena, CA 91105
626–818–1631 /mobile
lynnehillenbrand@gmail.com

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 sizes, disk masses, disk survival times.

→ 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; 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]
- AURA Member Representative, Caltech (2019-present)
- W.M. Keck Telescopes Science Steering Committee (2013-present)
- W.M. Keck Observatory Instrument Suite Evolution Working Group (co-chair) – 2024
- 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 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*)

• 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); Belgian Research Council KU Leuven (2018); Israeli ISF (2017, 2006); UK Science and Technology Facilities Council STFC (2017); UK STFC Earnest 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)
• Department Visiting Committees: (redacted)
• Telescope Allocation Committees: Caltech Keck /Palomar (17 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: "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^2: 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: W.M. Keck Telescopes (2002-2008) ; 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 – 2023-2025; 2015-2019 (Chair 2018-2019, 2017-2018)
• Graduate Studies Committee – 2013-present (2022-2024 Chair)
• Undergraduate Admissions Committee – 2019-2025
• Astronomy Option Representative – 2013-present
• Astrophysics Strategy Committee (CASC) – 2022-2024
• IPAC Oversight Committee – 2008-present
• Caltech-Carnegie Joint Brinson Postdoctoral Prize Fellowship Committee – 2022, 2023
• Astronomy Graduate Admissions Committee – 2021-2024, 2017, 2015/Chair, 2014, 2013/Chair, 2011, 2006/Chair, 2005, 2002, 2001

(previously)
• Faculty Board – 2003-2006 - *elected position* (Nominating Committee 2006, 2004/Chair)
• Director of Undergraduate Admissions Search Committee – 2020
• Graduate Dean Search Committee – 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 Conference on Mentoring Undergraduate Researchers, Panelist – 2016
• 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 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 Reconnaisance Committee – 2017 (co-Chair)
• Astrophysics Theory Faculty Search Committee (sub-committee of PMA Staffing) – 2003-2006
• Astronomy Fellowships (Hubble/Einstein/Sagan/Jansky/NSF/etc) Contact – 2003-2012
• 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 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 2016/2017, 2015/2016, 2006/2007, 2005/2006, 2002/2003)
• Ay 101, Physics of Stars (Fall 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 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 (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); Jessica Spake (2021-2024 - 51 Peg Fellow; informal mentor); 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 U. Texas); 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: Adolfo Carvalho (fall 2020 - present); 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: Ahaan Shetty (summer 2024); Karen Zhou (summer 2024), Diya Kumar (winter/spring 2024), Dharshini Anand (winter/spring 2024), Sujit Iyer (summer 2023), Ramzi Saber (winter 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); Tamojeet Roychowdhury (IIT Bombay; spring 2024 - remote); Kaan Evcimen (U. Cambridge; summer 2023); 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: 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

$*$364. "A Heuristic Approach to Quantifying the Lightcurves of Outbursting Young Stellar Objects"
L.A. Hillenbrand, K. Evcimen, & A. Carvalho, 2024, AAS Journals, in preparation.

$*$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, submitted

$*$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, 2023, AAS Journals, accepted. (https://arxiv.org/abs/2403.20255)

$*$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, AAS Journals, accepted. (https://arxiv.org/abs/2312.00143)

$*$360. "The Emerging Stellar Complex in Mon R2: Membership and Optical Variability Classification"
S. Jiang & L. Hillenbrand, 2024, AAS Journals, accepted. (https://arxiv.org/abs/2403.03843)

$*$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, AAS Journals, accepted. (https://arxiv.org/abs/2401.16532)

$*$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 10aaauow: Discovery of a new FU Ori outburst towards the RCW 49 HII region in NEOWISE"
V. Tran, K. De, & L. Hillenbrand, 2024, MNRAS, accepted. (https://arxiv.org/abs/2310.10832)

$*$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"
M.A. Kuhn, L.A. Hillenbrand, M.S. Connelley, M.R. Rich, B. Staels, +11 additional co-authors 2024, MNRAS, 529, 2630.

$*$352. "A Quarter Century of Variable Accretion onto the Classical T Tauri Star TW Hya"
G.J. Herczeg, Y. Chen, J.-F. Donati, A. Dupree, L.A. Hillenbrand, +31 additional co-authors, 2023, ApJ, 956, 102

$*$351. "Gaia21bty: An EXor lightcurve exhibiting an FUor spectrum"
M. Siwak, L.A. Hillenbrand, A. Kospal, P. Abraham, T. Giannini +14 additional co-authors, 2023, MNRAS, 524, 5548.

∗350. "Modeling the Multiwavelength Evolution of the V960 Mon System"
A. Carvalho, L.A. Hillenbrand, F.J. Hambsch, S. Dvorak, M. Sitko, +5 additional co-authors, 2023, ApJ 953, 86

∗349. "The Empirical Limits of Gyrochronology"
L.G. Bouma, E.K. Palumbo, & L.A. Hillenbrand, 2023, ApJL, 947, L3.

∗348. "Measurement of the Angular Momenta of Pre-main Sequence Stars: Early Evolution of Slow and Fast Rotators"
M. Kounkel, K.G. Stassun, L.A. Hillenbrand, J. Hernandez, J. Serna, & J. Curtis, 2023, AJ, 165, 182.

∗347. "A High-resolution Optical Survey of Upper Sco: Evidence for Coevolution of Accretion and Disk Winds"
M. Fang, I. Pascucci, S. Edwards, L.A. Hillenbrand, J.M. Carpenter, 2023, ApJ, 945, 112.

346. "A Deep Dimming and Abrupt Recovery of a YSO Candidate in the MonR2 Star Forming Region"
S.D. Jiang & L.A. Hillenbrand, 2022, RNAAS, 6, 232.

345. "Photometric and spectroscopic evidence for the EX Lup nature of the ongoing outburst from V1741 Sgr (= Gaia22dtk/ZTF18abfogsw/SPICY 71482)"
M. Kuhn, L.A. Hillenbrand, M.S. Connelley, +6 additional co-authors, 2022 ATel #15721 (http://www.astronomerstelegram.org/?read=15721).

∗344. "An exceptional infrared transient from a star engulfing a planet"
K. De, M. MacLeod, V. Karambelkar, D. Chakrabarty, R. Dekany, A.-C. Eilers, M. Graham, L.A. Hillenbrand, +13 additional co-authors, 2023, Nature, 617, 55

∗343. "A survey for variable young stars with small telescopes: VI - Analysis of the outbursting Be stars NSW 284, Gaia 19eyy, and VES 263"
D. Froebrich, L.A. Hillenbrand, C. Herbert, K. De, J. Eiosloffel +41 additional co-authors, 2022, MNRAS, 520, 5413

∗342. "Non-detection of He I in the atmosphere of GJ1214b with Keck/NIRSPEC"
J.J. Spake A. Oklopcic, L.A. Hillenbrand, H.A. Knutson, D. Kasper, F. Dai, S. Vissapragada, M. Zhang, J.L. Bean, 2022, ApJL, 939, L11

∗341. "Infrared variability of young solar analogs in the Lagoon Nebula"
C. Ordenes-Huanca, M. Zoccali, A. Bayo, J. Cuadra, R. Contreras Ramos, L.A. Hillenbrand, I. Lacerna, S. Abarzua, +4 additional co-authors, 2022, MNRAS, 517, 6191.

∗340. "Untangling the Galaxy. IV. Empirical Constraints on Angular Momentum Evolution and Gyrochronology for Young Stars in the Field"
M. Kounkel, K.G. Stassun, L. Bouma, K. Covey, L.A. Hillenbrand, & J.L. Curtis, 2022, AJ, 164, 137.

∗339. "Spectroscopic Confirmation of a Population of Isolated, Intermediate-Mass YSOs"
M.A. Kuhn, R. Saber, M.S. Povich, R.S. de Souza, A. Krone-Martins +6 additional co-authors including L.A. Hillenbrand, 2023, AJ, 165, 3

∗338. "Rotation of Low-Mass Stars in Upper Centaurus Lupus and Lower Centaurus Crux with TESS"
L.M. Rebull, J.R. Stauffer, L.A. Hillenbrand, A.M. Cody, E. Kruse, & B.P. Powell, 2022, AJ, 164, 80.

∗337. "Kepler and the Behemoth: Three Mini-Neptunes in a 40 Million Year Old Association"
L.G. Bouma, R. Kerr, J.L. Curtis, H. Isaacson, L.A. Hillenbrand, A.W. Howard, A.L. Kraus, A. Bieryla, D.W. Latham, E.A. Petigura, D. Huber, 2022, AJ 164, 215.

∗336. "Accretion Variability as a Guide to Stellar Mass Assembly" [Review]
W.J. Fischer, L.A. Hillenbrand, D. Johnstone, A. Kospal, M.M. Dunham, 2022, Protostars and Planets VII, ASPC 534, 355 (https://arxiv.org/abs/2203.11257)

∗335. "SRGA J181414.6-225604: A new Galactic symbiotic X-ray binary outburst triggered by an intense mass loss episode of a heavily obscured Mira variable"
K. De, I. Mereminskiy, R. Soria, +24 additional co-authors including L.A. Hillenbrand, 2022, ApJ, 935, 36.

∗334. "The Many-Faceted Light Curves of Young Disk-Bearing Stars in Taurus as Seen by K2"
A.M. Cody, L.A. Hillenbrand & L.M. Rebull, 2022, AJ, 163, 212.

333. "Expected FU Ori Outburst Amplitudes from the Optical to the Mid-Infrared"
L.A. Hillenbrand & Antonio C. Rodriguez, 2022 RNAAS, 6, 6.
(https://arxiv.org/abs/2201.01012)

∗332. "The Effect of Molecular Cloud Properties on the Kinematics of Stars Formed in the Trifid Region"
M.A. Kuhn, L.A. Hillenbrand, E.D. Feigelson, I. Fowler, K.V. Getman, P.S. Broos, M.S. Povich, & M. Gromadzki, 2022, ApJ, 937, 46.

∗331. "A ZTF Look at Optical Variability of Young Stellar Objects in the North America and Pelican Nebulae Complex"
L.A. Hillenbrand, T.J. Kiker, M. Gee, O. Lester, N.L. Braunfeld, L.M. Rebull, & M.A. Kuhn, 2022 AJ, 163, 263.

330. "Palomar Gattini-IR NIR detection and classification of a young, highly reddened Galactic classical nova PGIR21git / AT2021aadi / Gaia21ejq"
K. De, M. Hankins, L. Hillenbrand, +12 additional co-authors, 2021 ATel #14950
(http://www.astronomerstelegram.org/?read=14950).

∗329. "A 38 Million Year Old Mini-Neptune in the Kepler Field,"
L.G. Bouma, J.L. Curtis, K. Masuda, L.A. Hillenbrand, G. Stefansson, +10 additional co-authors, 2022, AJ, 163, 121

∗328. "The ODYSSEUS Survey. Motivation and First Results: Accretion, Ejection, and Disk Irradiation of CVSO 109"
C.C. Espaillat, G.J. Herczeg, T. Thanathibodee, C. Pittman, N. Calvet, N. Arulanantham, K. France, Javier Serna, +50 additional co-authors including L.A. Hillenbrand, 2022, AJ, 163, 114

∗327. "NGTS clusters survey – III: A low-mass eclipsing binary in the Blanco 1 open cluster spanning the fully convective boundary"
G.D. Smith, E. Gillen, D. Queloz, L.A. Hillenbrand, J.S. Action, +24 additional co-authors, 2021, MNRAS, 507, 5991.

∗326. "Evidence for Centrifugal Breakout around the Young M Dwarf TIC 23428455"
E.K. Palumbo, B.T. Montet, A.D. Feinstein, L.G. Bouma, J.D. Hartman, L.A. Hillenbrand, M.A. Gully-Santiago, & K.A. Banks, 2022, ApJ, 925, 75.

325. "Closing gaps to our origins. EUVO: the ultraviolet-visible window into the Universe"
A. Gomez de Castro, M. Barstow, F. Baudin, +26 additional coauthors, including L.A. Hillenbrand, 2022, Experimental Astronomy.

∗324. "Application of a Steady-State Accretion Disk Model to Spectrophotometry and High-Resolution Spectra of Two Recent FU Ori Outbursts"
A.C. Rodriguez & L.A. Hillenbrand, 2022, ApJ, 927, 144.

∗323. "Measuring Optical Extinction of Young Stellar Objects with Diffuse Interstellar Bands"
A. Carvalho & L.A. Hillenbrand, 2022, ApJ, 940, 156.

322. "Spectral Features of YSO Outburst Gaia 21bty"
L.A. Hillenbrand, 2021 ATel #14590
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11. "Herbig Ae/Be Stars: An Investigation of Molecular Environments and Associated Stellar Populations,"
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5. "Identification of New Candidate Herbig Ae/Be Stars in Extremely Young Galactic Clusters: M8, M16, M17, M42, NGC 2264,"
L.A. Hillenbrand, S.E. Strom, K.M. Merrill, & I. Gatley, 1993, in *Massive Stars: Their Lives in the Interstellar Medium* (eds. J. Cassinelli & E. Churchwell, ASP Conf. Ser. 35) p. 141.

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E.L. Turner, L.A. Hillenbrand, D.P. Schneider, J.N. Hewitt, & B.F. Burke, 1988, AJ, 96, 1682.

Co-Authorship on Significant Reports

– "Optimizing the U.S. Ground-Based Optical and Infrared Astronomy System" (NRC System Study 2015) - Elmegreen et al.
– "Wide-Field InfraRed Survey Telescope (WFIRST) Final Report" (2012) - Green et al.
– "New Worlds, New Horizons: A Decadal Survey in Astronomy and Astrophysics" (NRC Astro2010) - Blandford et al.
– "Access to Large Telescopes for Astronomical Instruction and Research" (ALTAIR, 2009) - Ramsey et al.
– "Worlds Beyond: A Strategy for the Detection and Characterization of Exoplanets" (ExoPlanet Task Force, 2008) - Lunine et al.
– "Astronomy from the Ground Up" (MPS/AST Senior Review, 2006) - Blandford et al.
– Origins Roadmap (NASA, 2002)
– Panel Report on "UVOIR from Space" (McKee/Taylor Decadal Survey, 2000) - Beckwith et al.

Other Position Papers

– "The development of HISPEC for Keck and MODHIS for TMT: science cases and predicted sensitivities" Q. Konopacky et al. 2023, Proc. SPIE, 12680, 1268007

– "Illuminating Galaxy Evolution at Cosmic Noon with ISCEA: the Infrared Satellite for Cosmic Evolution Astrophysics" Y. Wang et al. 2021 (https://arxiv.org/abs/2112.02387)

– 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/p

– "Directly Imaging Rocky Planets from the Ground" B. Mazin et al. 2019 (astro-ph/1905.04275)

– "All-Sky Near Infrared Space Astrometry" B. McArthur et al. 2019 (astro-ph/1904.08836)

– "Stellar Astrophysics and Exoplanet Science with the Maunakea Spectroscopic Explorer (MSE)" M. Bergemann, D. Huber, et al., 2019, (astro-ph/1903.03157)

– "SDSS-V: Pioneering Panoptic Spectroscopy" Juna A. Kollmeier et al., 2017, (astro-ph/1711.03234)

– "Science Impacts of the SPHEREx All-Sky Optical to Near-Infrared Spectral Survey" O. Dore, M. Werner et al. (67 additional co-authors including L.A. Hillenbrand) (astro-ph/1606.07039)

– "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)

– "The Diskionary: A Glossary of Terms Commonly Used for Disks and Related Objects, First Edition" N. Evans, N. Calvet, L. Cieza, J. Forbrich, L. Hillenbrand, C. Lada, B. Mern, S. Strom, D. Watson, 2009, web-only (2009arXiv0901.1691E)

– "What is a Planet?" M. McCaughrean, I.N. Reid, C. Tinney, J.D. Kirkpatrick, L. Hillenbrand, A.J. Burgasser, J.E. Gizis, S.L. Hawley, 2001, Science 291, 1487 (letter to the editor)

Presentations (past 10 years only)

• Departmental Colloquia:
  – 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-LSST 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
  – "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