Adam L. Kraus

Curriculum Vitae

Culliculum Vio	ac	
Univ. of Texas at Austin	Email: alk@astro.as.ut	exas.edu
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EDUCATION		
Ph.D., Astrophysics, California Institute of Technological	gy	June 2010
Thesis: (07/2009) Multiple Star Formation		
B.S., Astronomy (honors), University of Kansas		May 2003
B.S. , Physics, University of Kansas		May 2003
B.S. , Mathematics, University of Kansas		May 2003
RESEARCH INTERESTS		
Star & Planet Formation, Direct Imaging of Young I	Extra-Solar Planets,	
Population Statistics of Exoplanetary Systems, Fund	-	
Stars, Young Stellar Populations, Multiple Star Syst	ems	
POSITIONS		
Professor, University of Texas at Austin		2024-
Associate Professor, University of Texas at Austin		2019 – 2024
Assistant Professor, University of Texas at Austin		2013 – 2019
Clay Fellow, Harvard-Smithsonian Center for Astrop	hysics	2012 – 2013
Hubble Fellow, University of Hawaii - Institute for A	stronomy	2009 – 2012
Graduate Researcher, California Institute of Technol	ogy	2003-2009
GRANTS AWARDED		
NASA Hubble Space Telescope		
PSF-DASH: The IMF to Planetary Masses (2024;	AR-17571)	$75,861 \ (PI)$
Discovery of Young Planets with Kernel-Phase Inte	erf. (2021; AR-16612)	\$114,085 (Ad-
HST Confirmation of a Candidate Earth Analogue	(2019; GO-15685)	\$5,319 (Ad-P]
The IMF to Planetary Masses Across the Milky We	ıy (2017; GO-15238)	\$648,709 (PI)
Kernel-Phase Interferometry (2016; AR-14561)		\$141,000 (Ad-
FWTau b: BD Disk or Planet Caught in Formation	ı? (2015; GO-14196)	\$21,000 (Ad-F
Imaging Accreting Protoplanets in IC348 (2015; General Protoplanets in IC348)	<i>9-14172)</i>	\$66,000 (Co-I)
The Formation of Wide Planetary-Mass Companio	ns (2012; GO-12507)	$$143,000 \ (PI)$
The Mass-Luminosity-Teff Relation of Young Stars	(2012; GO-12506)	$83,000 \ (PI)$
The Dynamical Legacy of Star Formation in IC348		$130,000 \ (PI)$
The Dynamical Legacy of Star Formation in Orion	(2009; AR-11761)	$75,000 \ (PI)$
NASA James Webb Space Telescope		
A Census to the Bottom of the IMF in W3 (2024;	. ,	\$260,373 (Ad-
Snowline pulsations and UV photo-chemistry (2024)	• •	\$19,941 (Ad-F
NIRCam and MIRI for young starburst cluster We	sterlund 2 (2023; GO-3523)	\$38,008 (Ad-H
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GRANTS AWARDED (continued)

GRANTS AWARDED (continued)	
A Census to the Bottom of the IMF in Westerlund 2 (2022; GO-2640)	\$167,293 (Ad-PI)
Kernel-Phase for Planet Discovery with JWST (2022; AR-2509)	\$145,090 (Ad-PI)
National Science Foundation	
The Mass-Radius Relation of Young Stars from K2 (2017; AST-1716495)	319,306 (PI)
NASA Astrophysics Data Analysis Program	
The Exoplanet Migration Timescale from K2 Young Clusters (2017)	$$282,246 \ (Ad-PI)$
NASA Exoplanet Research Program	
Gaia Unveils the Perilous Lives of Planets in Binary Star Systems (2021)	\$568,134 (PI)
The Impact of Stellar Multiplicity on Planetary Systems (2014)	$253,492 \ (PI)$
NASA Spitzer Space Telescope	
A Proper-Motion Census of Star-Forming Regions (2013)	$331,890 \ (PI)$
NASA/JPL SURP	
Mapping the Evolution of Exoplanets with Precision NIR Radial Velocities	109,684 (PI)
NASA-Keck Observing Program	
An IMF Census in the W3 Star-Forming Region)	$$11,650 \ (Ad-PI)$
Orbital Architectures of Planet-Hosting Binary Systems)	$30,050 \ (PI)$
Testing Young Stellar Evolutionary Models with Dynamical Masses)	$$13,050 \ (Ad-PI)$
Gaia Unveils the Perilous Lives of Planets in Binaries)	$14,100 \ (PI)$
Young Star Masses in the Gaia Era (2015-19)	$76,200 \ (PI)$
Weighing the Stars: The Mass-Luminosity Relation for M Dwarfs (2015-16)	\$59,500 (Ad-PI)
The Impact of Stellar Multiplicity on Planet Occurrence (2014)	$78,000 \ (PI)$
Investigating Orbit Alignment for Planets in Binaries (2014)	$$15,750 \ (Co-I)$
The Impact of Stellar Multiplicity on Planet Occurrence (2013)	$$45,500 \ (PI)$
Giant Planets Caught at Formation (2012)	$20,000 \ (PI)$
NASA K2 Mission	
Short-Cadence Characterization of K2's Benchmark Planets (GO6; 2018)	$$30,000 \ (Ad-PI)$
ZEIT: The Return to Praesepe (GO5; 2017)	$30,000 \; (Ad-PI)$
Planet Evolution and Stellar Parameters at 10-20 Myr (GO5; 2017)	\$50,000 (Ad-PI)
ZEIT: The Hyades Cluster (GO4; 2016)	$$40,000 \ (Ad-PI)$
Planet Formation at Early Stages of Stellar Evolution (GO4; 2016)	\$50,000 (Ad-PI)
The Effect of Wide Binaries on Planet Occurrence (GO3; 2015)	$$20,000 \ (Ad-PI)$
NASA TESS Mission	
The Empirical Mass-Radius Relation from 10 to 700 Myr (2021)	$$70,000 \ (Ad-PI)$
The Empirical Mass-Radius Relation from 10 to 600 Myr (2020)	$75,000 \ (Ad-PI)$
Planetary Systems at 10-20 Myr After Formation (2018)	\$100,000 (Ad-PI)
Disintegrating Rocky Bodies Transiting White Dwarfs (2018)	$$37,000 \ (Ad-PI)$
NASA WIYN Observatory	
Planet-Hosting Binaries With Kepler and Gaia (2019-21)	\$16,500 (PI)
Clusters with K2 (2015)	$$12,600 \ (Ad-PI)$
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GRANTS AWARDED (continued)

GRANTS AWARDED (continued)	
Hubble Fellowship Program	Φ001 00 <i>6</i> (A. I. D.I
Planets on Wide Orbits with High-Contrast Imaging (Bowler, 2016)	\$231,206 (Ad-PI)
Understanding Planets Through Their Host Stars (Mann, 2015)	\$230,000 (Ad-PI)
Formation and Architecture of Outer Solar Systems (Kraus, 2009)	$$320,000 \ (PI)$
Sagan Fellowship Program	Φο.44 ΧΧ4 (Α.Ι.ΣΤ
The Galactic Distribution of Exoplanets (Vanderburg, 2017)	\$341,551 (Ad-PI)
51 Pegasi b Fellowship Program	Φο π (A. I. D.T
Planet Formation in the Binary Environment (Tofflemire, 2020)	\$374,719 (Ad-PI)
Planet Formation and Evolution Using Young Populations (Rizzuto, 2018)	\$374,937 (Ad-PI)
NASA Earth & Space Science Fellowships	010F 000 (A 1 DT
Demographics and Circumplanetary Disks of Wide Planets (Martinez, 2017)	\$135,000 (Ad-PI)
NASA Space Interferometer Mission	Ф7F 000 (DI)
Measuring the Kinematics of Young Stars with SIM (2008)	$$75,000 \ (PI)$
OBSERVING TIME AWARDED	
Hubble Space Telescope (WFPC2, WFC3)	199 orbits
Hubble Space Telescope (WFPC2, WFC3)	9.4 hours
Keck 10m Telescopes (Four Instruments)	65 nights
Spitzer Space Telescope: (IRAC)	580 hours
Very Large Telescope: (NACO)	4.5 nights
Gemini Observatory: (GPI, IGRINS, 'Alopeke)	94.6 hours
Magellan Observatory: (MIKE, FIRE)	7 nights
Hobby-Eberly Telescope (HRS)	30 hours
Palomar 200-inch Telescope: (Four Instruments)	41 nights
McDonald Obs. 2.7m Telescope: (TS23, IGRINS)	26 nights
UH 2.2m Telescope: (Two Instruments)	28 nights
WIYN 3.5m Telescope: (NESSI)	13 nights
CTIO 1.5m Telescope: (CHIRON)	6.7 nights
HONORS AND AWARDS	
BoV Excellence in Teaching Award	2018
Clay Fellow	2012
Hubble Fellow	2009
Goldwater Scholar	2002
Chancellor's Scholar, University of Kansas	1998
Summerfield Scholar, University of Kansas	1998
National Merit Scholar	1998
PROFESSIONAL SERVICE	
James Webb Space Telescope Proposal Review Panel Chair (Cycle 2)	2023
Hubble Space Telescope Proposal Review Panel (Cycles 19, 20, 23, 30)	2011-2022
Hubble Space Telescope Proposal Review Panel Chair (Cycle 25)	2017
National Optical Astronomy Observatory Proposal Review Panel	2014-2016
Spitzer Space Telescope Proposal Review Panel (Cycles 10,13)	2013-2017

University of Hawaii-IfA Time Allocation Committee member	2010-2011
NSF Grant Review Panel	2015,2018
NASA ADAP Grant Review Panel	2020
NASA EPRV Grant Review Panel	2021
NASA APRA/SAT Grant Review Panel	2024
Referee for Science, Nature, ApJ, ApJL, AJ, MNRAS, PASJ, A&A	2007-present
UNIVERSITY SERVICE	
Graduate Admissions Committee	2013-2020
	2022-2024
Graduate Admissions Committee Chair	2017-2020
Undergrad Studies Executive Committee Chair	2019-
Undergrad Studies Executive Committee	2015-
Lead Undergraduate Advisor	2015-2020
Chair, Astronomy UG Curriculum Review	2018-2019
Astronomy Dept Evaluations Committee	2019-2021
	2022-2024
Astronomy Dept Teaching Evaluation Committee	2019
Provost's Postdoc Fellow Committee (Astro)	2021
CNS Course & Curriculum Committee	2015-2018
CNS Dean's Scholars Steering Committee	2015-
UGS Sci/Tech Core Assessment Committee	2017
Colloquium Organizer	2013-2015
GMT Science Advisory Committee	2017-2020
McDonald Observatory Faculty Advisory Committee	2017-
51 Pegasi b Fellowship Selection Committee	2017-
51 Peg b Liaison for UT	2022-
GRADUATE STUDENTS MENTORED	
N. Burns-Watson (UT): Planets in Binaries (w/ A. Rizzuto)	2024-
R. Kerr (UT): Young Stars (w/ A. Rizzuto)	2019-2024
K. Sullivan (UT): Star Formation, Planets in Binaries	2018-2023
D. Krolikowski (UT): Planetary Systems in Young Stellar Populations	2016-2022
S. Factor (UT): Kernel-Phase Interferometry of Young Stars	2015-
R. Martinez (UT): Searching for Accreting Planets with Spitzer	2014-2021
K. Gullikson (UT): Searching for Low-Mass Companions to A/B Stars	2013-2016
A. Riddle (UT): IR Spectroscopy of Low-Mass EBs with IGRINS	2013-2016
K. Aller (UH): A PS1+UKIDSS Search for Wide Planets in Upper Sco	2011-2012
UNDERGRADUATE STUDENTS MENTORED	
P. Keating (UT): Orbits of Wide-Orbit Exoplanets	2023-2024
N. Burns-Watson (UT REU): Planets in Binary Star Systems	2023-2024
L. Pearce (UT): The Orbital Parameters of Wide-Orbit Exoplanets	2017-2019
S. Kamon (UT): Planetary Companions to Young Stars in IC348	2016
K. Hawkins (UH): Hypervelocity Stars	2012-2013
L. Urban (UH): Young Stars in Orion	2011

POSTDOCTORAL RESEARCHERS MENTORED

M. De Furio (NSF AAPF Fellow, UT): Form. & Evol. of Multiple Star Systems	2023-
S. Factor (UT): Binarity of Brown Dwarfs	2023-
A. Medina (Provost's Early Career Fellow, UT): Habitability of Low-Mass Stars	2021-2023
W. Best (UT): The IMF of Brown Dwarfs	2018-
B. Tofflemire (Postdoc + 51Pegb Fellow, UT): Young Eclipsing Binaries	2018-
A. Vanderburg (Sagan Fellow, UT): Transiting Planetary Systems	2017-2020
B. Bowler (Hubble Fellow, UT): Directly Imaged Planetary Systems	2016-2017
A. Rizzuto (Postdoc + 51Pegb Fellow, UT): Star and Planet Formation	2014-2021
A. Mann (McDonald + Hubble Fellow, UT): Young Planets, Host Stars	2013-2017
T. Dupuy (Harvard/UT): Astrometry of Cool Dwarfs and Young Stars	2013-2017
Talks Since 2014	
Baylor University (invited)	01/29/14
Giant Planets Caught at Formation	, ,
UCLA (invited)	02/29/14
The Impact of Stellar Multiplicity on Planet Formation	, ,
Cool Stars 18 (invited)	06/08/14
The Fundamental Properties of Cool Stars	, ,
Early Life of Star Clusters (invited)	11/04/14
Stellar Multiplicity in Primordial Populations	, ,
Star and Planet Formation in the Southwest 1 (invited)	03/26/15
The Impact of Stellar Multiplicity on Planet Formation	/ - / -
University of Kansas (invited)	04/13/15
The Impact of Stellar Multiplicity on Planet Formation	- / -/ -
Young Stars & Planets Near the Sun (invited)	05/12/15
Binarity of Young Stars	, ,
McDonald Obs. Board of Visitors (invited)	07/11/15
Planet Formation in Action	/ / -
Building Astronomy in Texas (invited)	09/26/15
The Formation and Evolution of Planetary Systems	, -,
K2 Science Conference	11/02/15
Constructing the Mass-Radius Relation at 10 Myr from K2	, - , -
Rice University (invited)	01/27/16
The Impact of Stellar Multiplicity on Planet Formation	01/21/10
UMass-Amherst (invited)	02/04/16
The Impact of Stellar Multiplicity on Planet Formation	02/01/10
UT-Austin Astronomy Students' Association (invited)	03/09/16
Planet Formation in Action	00/00/10
Cool Stars 19	06/07/16
Constructing the Mass-Radius Relation at 10 Myr from K2	00/01/10
Exoplanets 1(invited)	07/08/16
Planet Formation in Action	01/00/10
Northeast Kansas Astronomy League (invited)	10/27/16
rotuncast Ransas Astronomy League (mytteu)	10/21/10

Planet Formation in Action	
Formation & Evolution of Exoplanets	03/30/17
The Impact of Stellar Multiplicity on Planet Formation	
Kepler Science Conference 4	06/21/17
The Impact of Stellar Multiplicity on Planet Formation	
Know Thy Star, Know Thy Planet	10/11/17
The Impact of Stellar Multiplicity on Planet Formation	
Gemini Observatory (invited)	11/24/17
The Impact of Stellar Multiplicity on Planet Formation	
Stars and Clusters with K2 (invited)	01/17/18
The Mass-Radius Relation of Young Stars	
Univ. of Michigan (invited)	01/25/18
The Impact of Stellar Multiplicity on Planet Formation	
Star and Planet Formation in the Southwest 2 (invited)	03/15/18
Graduate Admissions and the Physics GRE	
UT-Austin Planetary Habitability (invited)	06/19/18
Solar System Formation	
UT-Austin Planetary Habitability (invited)	06/26/18
Planetary Demographics	
Cool Stars 20	07/30/18
The Eclipsing Binary Data Challenge	
Astronomy on Tap	10/16/18
Planets in Binary Star Systems	
Kepler & K2 SciCon V	03/06/19
The Impact of Stellar Multiplicity on Planet Formation	
Univ. of Arizona (invited)	04/25/19
The Impact of Stellar Multiplicity on Planet Formation	
UC - Santa Cruz (invited)	10/30/19
The Impact of Stellar Multiplicity on Planet Formation	
Sagan Workshop (invited)	07/22/21
The Impact of Binary Stars on Protoplanetary Disks and Planet Formation	
Extreme Solar Systems 5	03/20/24
The Impact of Binary Stars on Planetary Systems	, .
Know Thy Star 2 (invited)	02/04/25
The Impact of Binary Stars on Protoplanetary Disks and Planet Formation	