

# Andrew W. Mann

## *Curriculum Vitae*

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CONTACT INFORMATION	University of Texas at Austin Department of Astronomy 2515 Speedway, Stop C1400 Austin, Texas 78712-1205 USA	Office: (512) 471-6493 E-mail: <a href="mailto:amann@astro.as.utexas.edu">amann@astro.as.utexas.edu</a> <a href="http://www.as.utexas.edu/~amann/">http://www.as.utexas.edu/~amann/</a> <a href="https://github.com/awmann">https://github.com/awmann</a>
RESEARCH INTERESTS	Extrasolar planets, planet formation, stellar physics, cool stars, brown dwarfs, high-precision photometry, optical and NIR spectroscopy.	
REFERENCES	Dr. Eric Gaidos      University of Hawai'i ( <a href="mailto:gaidos@hawaii.edu">gaidos@hawaii.edu</a> ) Dr. Adam Kraus      University of Texas at Austin ( <a href="mailto:alk@astro.as.utexas.edu">alk@astro.as.utexas.edu</a> ) Dr. Phil Muirhead      Boston University ( <a href="mailto:philipm@bu.edu">philipm@bu.edu</a> )	
EDUCATION	<b>Institute for Astronomy, University of Hawai'i at Manoa,</b>  Ph.D., Astronomy & Astrophysics, 2013  PhD Thesis Topic: <i>Planets around cool stars: a spectroscopic and photometric study of M dwarfs and their planets</i> Advisor: Professor Eric Gaidos  M.S., Astronomy, 2010  Masters Thesis Topic: <i>The Invisible Majority? Evolution and Detection of Outer Planetary Systems without Gas Giants</i> Advisor: Professor Eric Gaidos Masters Thesis Topic 2: <i>BHOMs and the Redshift Evolution of the Cluster Merger Fraction</i> Advisor: Dr. Harald Ebeling  <b>Department of Physics and Astronomy, Johns Hopkins University,</b> B.S., Physics, with a minor in Mathematics, June 2008	
EMPLOYMENT	<b>University of Texas at Austin,</b> Hubble Postdoctoral Fellow (2015 – Present) Harlan J. Smith Postdoctoral Fellow (2013 – 2015) <b>Institute for Astronomy, University of Hawai'i at Manoa</b> Research Assistant (2009 – 2013); Advisor: Professor Eric Gaidos Research Assistant (2008 – 2009); Advisor: Dr. Jeffrey Morgan <b>Department of Physics and Astronomy, Johns Hopkins University,</b> Research Assistant (2007 – 2008); Advisor: Professor Rosemary Wyse	
PROFESSIONAL ACTIVITIES & SERVICE	<i>TESS</i> Cool Dwarf Target Selection group <i>TESS</i> Target Selection working group McDonald Time Allocation Committee Texas M Dwarfs and Exoplanets (Tex-MEX) Organizer	2015-present 2015-present 2015-present 2014-present

	Referee for AJ, ApJ, A&A, Nature	
	China Telescope Access Program Reviewer	2016
	NESSF reviewer	2016
	TAURUS Summer Research Program Mentor	2016
	OPTICON external reviewer	2015-2016
	<i>Hubble Space Telescope</i> Time Allocation Committee	2015
	<i>Kepler</i> Stellar properties working group	2013-2014
	Visiting Researcher at Boston University	2014-2015
	Cool Stars 18 Splinter Organizer	2014
	University of Hawaii Time Allocation Committee	2012-2013
	University of Hawaii Graduate Student Representative	2011-2012
	University of Hawaii Graduate Admissions Committee	2010-2011
GRANTS & AWARDS (AS PI ONLY)	Hubble Postdoctoral Fellowship Program	
	<i>Understanding Planets Through Their Host Stars</i>	\$360,000
	Harlan J. Smith Postdoctoral Fellowship	
	<i>Kepler Input Catalog Atlas of Stellar Spectra</i>	\$210,000
	NASA-Keck Principal Investigator Data Award	
	<i>Weighing the Stars: The Mass-Luminosity Relation for M Dwarfs</i>	\$41,500
	<i>Zodiacal Exoplanets in Time (ZEIT): The AO Follow-up Program</i>	\$18,000
	NASA-WIYN Principal Investigator Data Award	
	<i>Clusters with K2: Systematics from Membership and Binarity</i>	\$29,000
	ROSES-2015/K2 Guest Observer	
PI OBSERVING TIME	<i>Zodiacal Exoplanets in Time (ZEIT): The Hyades Cluster</i>	\$40,000
	University Research Council Award (Doctoral level)	\$1000
	<i>Spitzer</i> (IRAC)	106 hours
	Keck (LRIS, NIRC2, ESI) [UH, NASA]	8 nights
	Gemini (GNIRS) [NOAO]	4 nights
	CFHT (ESPaDOnS) [UH]	30 hours
	WIYN (Hydra) [NOAO]	40 hours
	IRTF (SpeX) [UH, Open]	26 nights
	Harlan J. Smith (TS23 Coude, IGRINS) [UT]	24 nights
	LCOGT [UT]	60 hours
MENTORSHIP & TEACHING	UH2.2m (SNIFS, OPTIC) [UH]	> 50 nights
	<b>Students Supervised:</b>	
	Jennifer Medina; TAURUS Undergraduate; <i>Measuring <math>V_{sin(i)}</math> of young planet-hosting stars</i>	
	Nathan Morris ; UT Undergraduate; <i>Rotation periods and ages for K2 planet hosts</i>	
	<b>Guest Lectures:</b>	
	Introduction to Astronomy (UT undergraduate); Blackbodies & Stars	
	Planetary Systems (UT undergraduate); Properties of planet-hosts	
	Planetary Systems (UT graduate); Interplay of planets and their host stars	

## TALKS

*Public:*

Board of Visitors Discussion Group	2015
Board of Visitors Science Talk	2014
Friends of the IfA	2012

*Invited:*

Institute of Astronomy, National Tsing Hua University	2016
Department of Astronomy, Boston University	2014
California Institute for Technology (Distinguished Visitor Program)	2013

*18 contributed/seminar talks not listed*

FIRST AUTHOR  
PUBLICATIONS  
(13)

*“Zodiacal Exoplanets in Time (ZEIT) IV: seven transiting planets in the Praesepe cluster”*

**Mann, Andrew W.**; Gaidos, Eric; Vanderburg, Andrew; et al.; Submitted to AAS Journals.

*“Zodiacal Exoplanets in Time (ZEIT) III: A short-period planet orbiting a pre-main-sequence star in the Upper Scorpius OB Association”*

**Mann, Andrew W.**; Newton, Elisabeth R.; Rizzuto, Aaron C.; et al.; AJ 152 61.

*“Zodiacal Exoplanets In Time (ZEIT) I: A Neptune-sized planet orbiting an M4.5 dwarf in the Hyades Star Cluster”*

**Mann, Andrew W.**; Gaidos, Eric; Mace, Gregory N.; et al.; ApJ, 818 46.

*“How to Constrain Your M Dwarf: measuring effective temperature, bolometric luminosity, mass, and radius”*

**Mann, Andrew W.**; Feiden, Gregory A.; Gaidos, Eric; Boyajian, Tabetha; von Braun, Kaspar; 2015, ApJ, 804 64.

*“Revised Photometric Passbands and Zero-Points for Photometry of Bright Stars”*

**Mann, Andrew W.**; von Braun, Kaspar; PASP 127 102.

*“Prospecting in Ultracool Dwarfs: Measuring the Metallicities of Mid- and Late-M Dwarfs”*

**Mann, Andrew W.**; Deacon, Niall R.; Gaidos, Eric; Ansdell, Megan; Brewer, John M.; Liu, Michael C.; Magnier, Eugene A.; Aller, Kimberly M.; 2014, AJ 147 160.

*“Spectro-thermometry of M Dwarfs and Their Candidate Planets: Too Hot, Too Cool, or Just Right?”*

**Mann, Andrew W.**; Gaidos, Eric; Ansdell, Megan; 2013, ApJ, 779 188.

*“Testing the Metal of Late-Type Kepler Planet Hosts with Iron-Clad Methods”*

**Mann, Andrew W.**; Gaidos, Eric; Kraus, Adam; Hilton, Eric; 2013, ApJ, 770 43.

*“Prospecting in late-type dwarfs:*

*a calibration of infrared and visible spectroscopic metallicities of late-K and M dwarfs spanning 1.5 dex”*

**Mann, Andrew W.**; Brewer, John; Gaidos, Eric; Lépine, Sébastien; Hilton, Eric; AJ 2013, 145 52.

	<p><i>“They Might be Giants: luminosity classes, planet frequency, and planet-metallicity relation of the coolest Kepler target stars”</i>  <b>Mann, Andrew W.</b>; Gaidos, Eric; Lépine, Sébastien; Hilton, Eric; 2012, ApJ, 753, 90.</p>
	<p><i>“X-ray-optical classification of cluster mergers and the evolution of the cluster merger fraction”</i>  <b>Mann, Andrew W.</b>; Ebeling, Harald; 2012, MNRAS 240, 2120.</p>
	<p><i>“Ground-Based Sub-Millimagnitude CCD Photometry of Bright Stars using Snapshot Observations”</i>  <b>Mann, Andrew W.</b>; Gaidos, Eric; Aldering Greg; 2011, PASP 123, 1273.</p>
	<p><i>“The Invisible Majority? Evolution and Detection of Outer Planetary Systems without Gas Giants”</i>  <b>Mann, Andrew W.</b>; Gaidos, Eric; Gaudi, B Scott; 2010, ApJ, 719, 1454.</p>
PUBLICATIONS WITH A SIGNIFICANT CONTRIBUTION (17)	<p><i>“M Dwarf Activity in the Pan-STARRS 1 Medium-Deep Survey: First Catalog and Rotation Periods”</i>  Kado-Fong, Erin; Williams, Peter K. G.; <b>Mann, Andrew W.</b>; et al.; Submitted to ApJ.</p> <p><i>“Zodiacal Exoplanets in Time (ZEIT) II. A “Super-Earth” Orbiting a Young K Dwarf in the Pleiades Neighborhood”</i>  Gaidos, Eric; <b>Mann, Andrew W.</b>; Rizzuto, Aaron; et al.; 2016, MNRAS, 1448.</p> <p><i>“The Physical Mechanism Behind M Dwarf Metallicity Indicators and the Role of C and O Abundances”</i>  Veyette, Mark J.; Muirhead, Philip S.; <b>Mann, Andrew W.</b>; Allard, France; 2016, ApJ, 828, 95.</p> <p><i>“The Impact of Stellar Multiplicity on Planetary Systems. I. The Ruinous Influence of Close Binary Companions”</i>  Kraus, Adam L.; Ireland, Michael J.; Huber, Daniel; <b>Mann, Andrew W.</b>; Dupuy, Trent J.; 2016, AJ, 152, 8.</p> <p><i>“They are small worlds after all: revised properties of Kepler M dwarf stars and their planets”</i>  Gaidos, E.; <b>Mann, Andrew W.</b>; Kraus, A. L.; Ireland, M.; 2016, MNRAS, 457, 2887.</p> <p><i>“Radial Trends in IMF-sensitive Absorption Features in Two Early-type Galaxies: Evidence for Abundance-driven Gradients”</i>  McConnell, Nicholas J.; Lu, Jessica R.; <b>Mann, Andrew W.</b>; 2016, ApJ, 821, 39.</p> <p><i>“A Pan-STARRS 1 study of the relationship between wide binarity and planet occurrence in the Kepler field”</i>  Deacon, N. R.; Kraus, A. L.; <b>Mann, Andrew W.</b>; et al.; 2016, MNRAS, 455, 4212.</p>

*“The Enigmatic and Ephemeral M Dwarf System KOI 6705: Cheshire Cat or Wild Goose?”*

Gaidos, Eric; **Mann, Andrew W.**; Ansdell, Megan; 2016, ApJ, 817, 50.

*“Kepler-445, Kepler-446 and the Occurrence of Compact Multiples Orbiting Mid-M Dwarf Stars”*

Muirhead, Philip S.; **Mann, Andrew W.**; Vanderburg, Andrew; et al.; 2015, ApJ, 801, 18.

*“The Near-ultraviolet Luminosity Function of Young, Early M-type Dwarf Stars”*

Ansdell, Megan; Gaidos, Eric; **Mann, Andrew W.**; et al.; 2015, 798, 41.

*“Trumpeting M dwarfs with CONCH-SHELL: a catalogue of nearby cool host-stars for habitable exoplanets and life”*

Gaidos, Eric; **Mann, Andrew W.**; Lpine, S.; et. al.; 2014, MNRAS 433, 2561.

*“M Dwarf Metallicities and Giant Planet Occurrence: Ironing Out Uncertainties and Systematics”*

Gaidos, Eric; **Mann, Andrew W.**; Ansdell, Megan; 2014, ApJ, 791, 54.

*“An Understanding of the Shoulder of Giants: Jovian Planets around Late K Dwarf Stars and the Trend with Stellar Mass”*

Gaidos, Eric; Fischer, Debra A.; **Mann, Andrew W.**; et al.; 2013, ApJ, 771, 18.

*“Objects in Kepler’s Mirror May be Larger than they Appear: Bias and Selection Effects in Transiting Planet Surveys”*

Gaidos, Eric; **Mann, Andrew W.**; 2013, ApJ, 145, 52.

*“A Spectroscopic Catalog of the Brightest ( $J < 9$ ) M Dwarfs in the Northern Sky”*

Lépine, Sébastien; Hilton, Eric; **Mann, Andrew W.**; Rojas-Ayala, Barbara; Wilde, Matthew; and Gaidos, Eric; 2013, AJ, 145, 102.

*“On the Nature of Small Planets around the Coolest Kepler Stars”*

Gaidos, Eric; Fischer, Debra A.; **Mann, Andrew W.**; Lépine, Sébastien; 2012, ApJ, 746 36.

*“Transit Analysis Package (TAP and autoKep): IDL Graphical User Interfaces for Extrasolar Planet Transit Photometry”*

Gazak, J. Zachary; Johnson, John A.; Tonry, John; Eastman, Jason; **Mann, Andrew W.**; Agol, Eric; 2012, Advances in Astronomy, 30.

21 papers where my contribution was minor are not listed.