Andrew W. Mann

Curriculum Vitae

CONTACT INFORMATION

Columbia University
Department of Astronomy
Mail Code 5246
550 West 120th Street
New York, NY 10027 USA

E-mail: awm2126@columbia.edu

Office: (212) 854-4030
Cell: (216) 402-3585
http://www.as.utexas.edu/~amann/

RESEARCH INTERESTS

Exoplanet statistics (occurrence, correlations with host star properties)
Evolution of planetary systems
Methods to detect and characterize (young) planets
Machine learning tools for large datasets
Fundamental properties of late-type and pre-main sequence stars
Techniques for high-precision photometry

REFERENCES

Adam Kraus	Professor, University of Texas at Austin (alk@astro.as.utexas.edu)
Eric Gaidos	Professor, University of Hawai'i (gaidos@hawaii.edu)
Philip Muirhead	Professor, Boston University (philipm@bu.edu)
John Rayner	Director, IRTF Observatory (rayner@ifa.hawaii.edu)

EMPLOYMENT

Hubble Prize Postdoctoral Fellow	2015 – Present
Harlan J. Smith Prize Postdoctoral Fellow	2013 – 2015
Research Assistant; Advisor: Prof. Eric Gaidos	2009 – 2013
Research Assistant; Advisor: Dr. Jeffrey Morgan	2008 – 2009

EDUCATION

Institute for Astronomy, University of Hawai'i at Manoa,

Ph.D., Astronomy & Astrophysics, 2013

PhD Thesis Topic: *Planets around cool stars: a spectroscopic and photometric study of M dwarfs and their planets*
Advisor: Prof. Eric Gaidos

M.S., Astronomy, 2010

Masters Thesis Topic: *The Invisible Majority? Evolution and Detection of Outer Planetary Systems without Gas Giants*; Advisor: Prof. Eric Gaidos
Masters Thesis Topic 2: *BHOMs and the Redshift Evolution of the Cluster Merger Fraction*; Advisor: Dr. Harald Ebeling

Department of Physics and Astronomy, Johns Hopkins University,
B.S., Physics, with a minor in Mathematics, June 2008

PROFESSIONAL ACTIVITIES & SERVICE

TESS Cool Dwarf Target Selection group	2015-present
TESS Target Selection working group	2015-present
McDonald Time Allocation Committee	2015-present

Referee for Nature, ApJ, AJ, A&A

Texas M Dwarfs and Exoplanets (Tex-MEX) Organizer	2014-2017
NESSF reviewer	2016, 2017
Bashfest SOC, LOC	2015, 2017
OPTICON external reviewer	2015-2017
China Telescope Access Program Reviewer	2016
TAURUS Summer Research Program Mentor	2016, 2017
Hubble Space Telescope Time Allocation Committee	2015
Kepler 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)

ROSES-2016/K2 Guest Observer	
Zodiacal Exoplanets in Time (ZEIT): The Return to Praesepe	$30,000
Hubble Postdoctoral Fellowship Program	
Understanding Planets Through Their Host Stars	$360,000
Harlan J. Smith Postdoctoral Fellowship	
Kepler Input Catalog Atlas of Stellar Spectra	$210,000
NASA-Keck Principal Investigator Data Award	
Weighing the Stars: The Mass-Luminosity Relation for M Dwarfs	$41,500
Zodiacal Exoplanets in Time (ZEIT): The AO Follow-up Program	$18,000
NASA-WIYN Principal Investigator Data Award	
Clusters with K2: Systematics from Membership and Binarity	$39,000
ROSES-2015/K2 Guest Observer	
Zodiacal Exoplanets in Time (ZEIT): The Hyades Cluster	$40,000
University Research Council Award (Doctoral level)	$1000

PI Observing Time

Spitzer (IRAC)	125 hours
Keck (LRIS, NIRC2, ESI) [UH, NASA]	11 nights
Gemini (GNIRS) [NOAO]	4 nights
CFHT (ESPaDOnS) [UH]	30 hours
WIYN (Hydra) [NOAO]	65 hours
IRTF (SpeX) [UH, Open]	32 nights
Harlan J. Smith (TS23 Coude, IGRINS) [UT]	34 nights
LCOGT [UT]	250 hours
UH2.2m (SNIFS, OPTIC) [UH]	$>$ 50 nights

Mentorship & Teaching

Students Supervised:

Pa Chia Thao; TAURUS Undergraduate; *Spitzer's view of two young exoplanets*

Megan Ansdell; UH/IfA Graduate Student; *Are circumstellar disks always aligned with their host stars?*

Xueying Guo; MIT Graduate Student; *The metallicity distribution and hot Jupiter rate of the Kepler field*

Jennifer Medina; TAURUS Undergraduate; *Measuring Vsin(i) of young planet-hosting stars*

Nathan Morris; UT Undergraduate; *Rotation periods and ages for K2 planet hosts*

Richard Seifert; UT Undergraduate; *Cluster Binarity from WIYN/Hydra*

Guest Lectures:

Introduction to Astronomy (UT undergraduate); Magnitudes & Colors
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

Invited & Colloquia:

University of Florida; Department of Astronomy	2017
Frank N. Bash Symposium; New Horizons in Astronomy	2017
Asteroseismology and Optical Interferometry	2017
Academia Sinica; Institute of Astronomy and Astrophysics (ASIAA)	2017
University of Minnesota; Institute for Astrophysics	2017
Institute of Astronomy, National Tsing Hua University	2016
Department of Astronomy, Boston University	2014
California Institute for Technology (Distinguished Visitor Program)	2013

Public:

Astronomy on Tap	2017
EXES Teacher Meeting	2017
Gasparilla Teacher's Association	2016
Board of Visitors Discussion Group	2015
Board of Visitors Science Talk	2014
Friends of the IfA	2012

21 contributed/seminar talks not listed

Press Releases

New Planet Offers Clues to the Origin of Close-in Exoplanets

Newly Discovered Planet in the Hyades Cluster Sheds Light on Planetary Evolution