

Andrew W. Mann

Curriculum Vitae

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CONTACT	UNC Chapel Hill	<i>E-mail:</i> awmann@unc.edu
INFORMATION	Department of Physics & Astronomy 271 Phillips Hall, Office 242 Chapel Hill, NC 27599	Github: https://github.com/awmann Homepage: http://andrewwmann.com <i>Office:</i> (919) 442-8934
RESEARCH INTERESTS	Evolution of planetary systems, machine learning & data mining, exoplanet demographics, fundamental properties of late-type and pre-main-sequence stars.	
EMPLOYMENT	Assistant Professor, UNC Chapel Hill	2018 –
	<i>Hubble</i> Prize Postdoctoral Fellow, Columbia University	2017 – 2018
	<i>Hubble</i> Prize Postdoctoral Fellow, UT Austin	2015 – 2017
	Visiting Scientist, Boston University	2013 – 2014
	<i>Harlan J. Smith</i> Prize Postdoctoral Fellow, UT Austin	2013 – 2015
EDUCATION	Institute for Astronomy, University of Hawai'i at Manoa,	
	Ph.D., Astronomy & Astrophysics, August 2013: <i>Planets around cool stars: a spectroscopic and photometric study of M dwarfs and their planets</i> Advisor: Prof. Eric Gaidos	
	M.S., Astronomy, 2010	
	Department of Physics and Astronomy, Johns Hopkins University,	
	B.S., Physics, Mathematics minor, June 2008	
GRANTS & AWARDS (AS PI)	Lifetime funding \$2.3M; \$1.5M to UNC. JWST Cycle 1 <i>The Atmosphere of a 17 Myr Hot Jupiter</i>	\$97,020
	NSF CAREER <i>Fundamental properties of young and pre-main-sequence stars</i>	\$634,970
	TESS Cycle 3 <i>The search for young planets with TESS</i>	\$40,000
	NASA Exoplanet Research Program <i>How often are newborn planets aligned with their host star?</i>	\$333,400
	NASA-Keck Principal Investigator Data Award <i>A giant planet transiting a cool white dwarf</i>	\$12,550
	Heising-Simons Foundation (Scialog) <i>Dancing Degenerates: Ages of Brown Dwarfs from White Dwarfs</i>	\$55,000
	TESS Cycle 2 <i>Searching For Infant Exoplanets In Young Moving Groups</i>	\$50,000
	Astrophysics Data Analysis Program (ADAP) <i>Spitzer's View of Two Young Exoplanets</i>	\$143,198
	NASA-WIYN Principal Investigator Data Award <i>Studying Young Planets with TESS</i>	\$14,200

ROSES-2018/K2 Guest Observer		
	<i>The search for long-period planets in praesepe</i>	\$125,000
NASA-WIYN Principal Investigator Data Award		
	<i>The Mass-Luminosity-Age Relation of Low-Mass Stars</i>	\$13,575
ROSES-2016/K2 Guest Observer		
	<i>Zodiacal Exoplanets in Time (ZEIT): The Return to Praesepe</i>	\$30,000
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>	\$230,000
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>	\$39,000
ROSES-2015/K2 Guest Observer		
	<i>Zodiacal Exoplanets in Time (ZEIT): The Hyades Cluster</i>	\$40,000

CURRENT	Referee for Nature, ApJ, Science, AJ, A&A, MNRAS	
PROFESSIONAL	UNC Chapel Hill Journal Club	2020-present
ACTIVITIES &	SPS advisor	2020-present
SERVICE	PLATO working group	2020-present
	<i>TESS</i> SG2, SG4 follow-up groups	2020-present
	Co-PI THYME	2018-present
	PI ZEIT	2016-present
	<i>TESS</i> Target Selection working group	2015-present

MENTORSHIP	Recent Students Supervised:	
& TEACHING	Mackenna Wood; UNC Graduate; <i>Ages of young clusters</i>	
	Jonathan Bush; UNC Graduate; <i>Searching for young stars with TESS</i>	
	Matthew Fields; UNC Graduate; <i>Disk-star alignment in star-forming regions</i>	
	Reilly Milburn; UNC Graduate; <i>Photoevaporation of atmospheres</i>	
	Pa Chia Thao; UNC Graduate (NSF Fellow); <i>The atmospheres of exoplanets</i>	
	Madyson Barber; UNC Undergraduate (Chancellor Fellow); <i>Young planet search</i>	
	Stephen Schmidt; UNC Undergraduate; <i>Metallicities of M dwarfs</i>	
	Bowen Gu; UNC Undergraduate; <i>Activity and M dwarf fundamental parameters</i>	
	SJ Espinosa; UNC Undergraduate; <i>Wide Binaries in Gaia</i>	
	Dylan Owens; UNC Undergraduate; <i>Eccentricities of young planets</i>	
	Classes:	
	ASTR 202 Introduction to Astrophysics for Majors	Fall 2019/2020
	ASTR 519/719 Astrophysical Data	Spring 2019/2020 & Fall 2021
	ASTR 101 Introduction to Astronomy; The Solar System	Spring 2021/2022

PUBLICATIONS	Publication metrics as of March 2022:
	177 peer-reviewed papers; 21 as first-author.
	All publications – 9,000 citations; h-index of 51.
	Major contributor/PI publications – 4,800; h-index of 38.

Full list can be accessed on [Google Scholar](#).

Selected publications below, with UNC Lab members in bold:

TESS Hunt for Young and Maturing Exoplanets (THYME). VI. An 11 Myr Giant Planet Transiting a Very-low-mass Star in Lower Centaurus Crux; **Mann, A. W., Wood, M. L.; Schmidt, S. P.; Barber, M. G.**; et al. AJ 2022 163..156M.

Characterizing Undetected Stellar Companions with Combined Data Sets; **Wood, M. L., Mann, Andrew W.**, Kraus, Adam L. AJ 2021 162...128W.

Zodiacal Exoplanets in Time (ZEIT). IX. A Flat Transmission Spectrum and a Highly Eccentric Orbit for the Young Neptune K2-25b; **Thao, P. C., Mann, A. W.**, Johnson, M. C., Newton, E. R., Guo, X., Kain, I. J., et al. AJ 2020 159...32T.

Zodiacal Exoplanets in Time (ZEIT). VI. A Three-planet System in the Hyades Cluster Including an Earth-sized Planet; **Mann, A. W.**, Vanderburg, A., Rizuto, A. C., Kraus, A. L., Berlind, P., et al. AJ 2018 155....4M.

How to Constrain Your M Dwarf: Measuring Effective Temperature, Bolometric Luminosity, Mass, and Radius; **Mann, A. W.**, Feiden, G. A., Gaidos, E., Boyajian, T., and von Braun, K. ApJ 2015 804...64M.

RECENT	(Colloquium) Hertzberg Astrophysics	2021
INVITED	(Invited) <i>TESS</i> Science Team Meeting	2021
TALKS AND	(Invited) Sagan Summer Workshop (speaker and panelist)	2021
COLLOQUIA	(Invited) THYME conference I	2020
	(Invited) <i>TESS</i> Science Team Meeting	2020
	(Invited) UC Irvine Virtual Astronomy Series	2020
	(Invited) Kepler & K2 Science Conference V	2019
	(Colloquium) University of Hawaii at Manoa; Institute for Astronomy	2018
	(Invited) IRTF Future Directions	2018
	(Colloquium) UNC Chapel Hill; Department of Physics and Astronomy	2018
	(Colloquium) Michigan State University; Department of Astronomy	2018
	(Colloquium) Ohio State University; Department of Astronomy	2018
	(Colloquium) University of Florida; Department of Astronomy	2018
	(Invited) Frank N. Bash Symposium; New Horizons in Astronomy	2017
	(Invited) Asteroseismology and Optical Interferometry	2017
	(Colloquium) University of Florida; Department of Astronomy	2017
	(Colloquium) Academia Sinica; Institute of Astronomy and Astrophysics	2017
	(Colloquium) University of Minnesota; Institute for Astrophysics	2017

PRESS	NASA coverage of 3-planet system in a river of stars.
COVERAGE	Science News coverage of our young planet in a binary system.
	JPL release on young giant planet.
	AAS NOVA coverage on a planetary system we discovered in the Hyades.
	New Planet Offers Clues to the Origin of Close-in Exoplanets.
	Newly Discovered Planet in the Hyades Cluster Sheds Light on Planetary Evolution.