Curriculum Vitae and Publication List

Personal &	UNC Chapel Hill	E-mail: awmann@unc.edu
Contact	Department of Physics & Astronomy	Github: https://github.com/awmann
Information	271 Phillips Hall, Office 242	Homepage: http://andrewwmann.com
	Chapel Hill, NC 27599	Office: (919) 442-8934

EDUCATION Institute for Astronomy, University of Hawai'i at Mānoa,

Ph.D., Astronomy & Astrophysics, August 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: 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, Mathematics minor, June 2008

Professional Experience	Associate Professor, UNC Chapel Hill Assistant Professor, UNC Chapel Hill Hubble Postdoctoral Fellow, Columbia University	$2024 - ext{Present}$ $2018 - 2024$ $2017 - 2018$
	Hubble Postdoctoral Fellow, UT Austin	2015 - 2017
	Visiting Scientist, Boston University	2013 - 2014
	Harlan J. Smith Postdoctoral Fellow, UT Austin	2013 - 2015
Honors	Team Pa Chia Thao:	
	ExoExplorer	2023
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	Amelia Earhart Fellowship	2022
	NSF Graduate Fellowship	2019-2023

<u>Team</u>	
Pa Chia Thao:	
ExoExplorer	2023
Amelia Earhart Fellowship	2022
NSF Graduate Fellowship	2019-2023
Jack Kent Cooke Foundation Graduate Fellowship	2019-2022
Flatiron Predoctoral Fellowship	2021
Keck Visiting Scholar	2020
Mackenna Wood:	
Three-minute thesis (3MT) winner	2022
NSF Graduate Fellowship, Honorable Mention	2020
Madyson Barber:	
NSF Graduate Fellowship	2023
Robert Shelton Award for Outstanding Research	2022

CSS Science Scholar	2021
Andrew Boyle:	
NSF Graduate Fellowship	2024
Personal	
Scialog (Research Corporation for Science Advancement) Fellow	2019
Hubble Prize Fellowship	2015
Harlan J. Smith Prize Fellowship	2013
Advancing Science in America Award (ARCS)	2011

Publications ADS citations statistics as of November, 2024:

& 250 peer-reviewed publications, 21 first-author, and 10 led by UNC students.

Scholarship 13,000 total citations, with an H-index of 61.

Full listing of papers on Google Scholar

Invited Talks and Colloquia

(Colloquium)	University of Michigan	2024
(Colloquium)	Johns Hopkins University	2023
(Colloquium)	Hertzberg Astrophysics	2021
(Invited)	TESS Science Team Meeting	2021
(Invited)	Sagan Summer Workshop (speaker and panelist)	2021
(Invited)	THYME conference I	2020
(Invited)	TESS 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
(Colloquium)	Institute of Astronomy, National Tsing Hua University	2016
(Invited)	California Institute for Technology (Distinguished Visitor)	2013

TEACHING ACTIVITIES

Courses Taught

Spring 2025: ASTR 100	250 students
Fall 2024: ASTR 519 & ASTR 719	23 students
Spring 2024: ASTR 511 & ASTR 711	5 students
Fall 2023: ASTR 519	25 students

Spring 2022: ASTR 101	203 students
Fall 2021: ASTR 519 & ASTR 719	11 students
Spring 2021: ASTR 101	173 students
Fall 2020: ASTR 202	34 students
Spring 2020: ASTR 519 & ASTR 719	19 students
Fall 2019: ASTR 202	17 students
Spring 2019: ASTR 519 & ASTR 719	10 students

Graduate Students Supervised

Andrew Boyle (1st year, former UNC undergraduate);

Project Topic: Gyro-Tagging young stars with TESS

Madyson Barber (2st year, former UNC undergraduate);

Project Topic: The search for young planets with TESS

Reilly Millburn (5th year);

Project Topic: Photoevaporation and exospheres of young transiting planets

Matthew Fields (5th year);

Project Topic: Are planets born aligned with their host stars?

Pa Chia Thao (5th year);

Project Topic: Atmospheres of young exoplanets Jonathan Bush (Graduated with Masters in 2023);

Project Topic: Gyro-Tagging young stars with TESS

Mackenna Wood (Graduated with Ph.D. in 2023);

PhD topic: Ages of young stellar associations

Current & Recent Undergraduate Students

William Storch; (Sophomore);

Project Topic: Masses of planets from their atmospheres

Leah Boff; (Sophomore);

Project Topic: Finding False False-Fositive Planets

Isabel Lopez Murillo; (Junior);

Project Topic: Transit Timing Variations in Young systems

Salem Burtner; (Senior);

Project Topic: Galactic Strings, separating reality from artifacts

Madyson Barber; (graduated 2022, Undergraduate Thesis);

Project Topic: A new young association in the Kepler field

Stephen Schmidt; (graduated 2022, Undergraduate Thesis);

Project Topic: M dwarf metallicities from wide binaries

Bowen Gu; (graduated 2022);

Project Topic: The role of activity on late-type dwarf stars

Dylan Owens; (graduated 2021);

Project Topic: Eccentricities of young planets

Patrick Gorman; (graduated 2020);

Project Topic: Design of a 1U CubeSat

SJ Espinosa; (graduated 2019);

Project Topic: Wide Binaries in Gaia

 $Oct\ 2019\ -$

 ${\rm Oct}\ 2021$

EXTERNAL GRANTS & AWARDS

High School Students

Mackenzie Savage (NCSSM);	2020
Project Topic: Basic CubeSat Design Ayesha Darekar (Apex High School);	2020
Project Topic: TESS and Gaia contamination	2020
Total funding to UNC: \$2.6M	
Measuring the Mass of Young Planetary Systems Using Transit Timing Variations - NASA TESS Guest Investigator Cycle 7.	May 2025 – May 2027
The TESS Sco-Cen Legacy Survey - TESS Guest Investigator Cycle 7.	Jan 2025 – Jan 2027
Exploring the properties spots on young stars - TESS Guest Investigator Cycle 7.	Jan 2025 – Jan 2027
Demographics of Young Planets with TESS - NASA Exoplanet Research Program (XRP)	Jan 2025 – Jan 2028
Accretion onto a 3Myr transiting planet' - NASA/JPL Keck PI Data award.	July 2024 – June 2025
Measuring the Mass of Young Planetary Systems Using Transit Timing Variations - NASA TESS Guest Investigator Cycle 6.	May 2024 – Apr 2026
The Search for Additional Planets in Known Young Planetary Systems - TESS Guest Investigator Cycle 6.	Apr 2024 – Mar 2026
Gyro-Tagging: Identifying Members of Young Associations from Their Light Curves - NASA Astrophysics Data Analysis Program.	Apr 2024 – Mar 2026
TESS Reaches for Cooler Planets NASA TESS - Guest Investigator Cycle 5.	Feb 2022 – Jan 2024
The Atmosphere of a 17 Myr Hot Jupiter - NASA JWST Cycle 1 GO.	Feb 2022 – Jan 2024
CAREER: Fundamental Properties of Young and Pre-MS Stars - NSF CAREER	Apr 2022 – Mar 2027
How often are newborn planets aligned with their host stars? - NASA Exoplanet Research Program (XRP).	Jul 2021 – Jun 2023
A giant planet transiting a cool white dwarf - NASA/JPL Keck PI Data award.	Jun 2020 – Jun 2022
The search for young planets using Cycle 1 and Cycle 3 TESS data - NASA TESS Guest Investigator Cycle 3.	Nov 2020 – Nov 2022
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Dancing Degenerates: Ages of Brown Dwarfs from White

Dwarfs - Heising-Simons Foundation (Scialog TDA).

Zodiacal Exoplanets in Time: Spitzer's view of two young exoplanets - NASA Astrophysics Data Analysis Program (ADAP).	May 2019 – May 2021
Zodiacal Exoplanets in Time: The search for long-period planets and eclipsing binaries in Praesepe - NASA K2 Guest Observer.	Oct 2018 – Oct 2020
Studying Young Planets with TESS - WIYN/Exoplanet PI Data award	Aug 2018 – July 2020
The Mass-Luminosity-Age Relation of M dwarfs - NASA/JPL Keck PI Data award	July 2018 – July 2020

PROFESSIONAL UNC Committees & Service

Service &	Graduate Admissions & Recruiting		2018, 2019, 2020	0
OUTREACH	Society of Physics Students Advisor	2019,	2020, 2021, 2022	2
	Colloquia Committee		2019, 2020, 202	1
	SALT Board of Directors		2020	0
	Faculty Council (Natural Sciences and Mathematics); Alter	nate	2020	0

External Professional Service

Referee for Nature, the Astrophysical Journal (ApJ), the Astronomical Journal (AJ), Monthly Notices of the Royal Astronomical Society (MNRAS), Astronomy and Astrophysics (A&A), and Publications of the Astronomical Society of the Pacific (PASP).

Pandora Science Contributor	2022-present
ESPEX Science Team	2022-present
NASA MIDEX reviewer	
ESA's <i>PLATO</i> Target Selection Group	2020-present
NASA IRTF SPECTRE Science Advisory Committee	2019-present
Co-PI THYME Collaboration	2018-present
NASA's TESS Target Selection Group	2015-present
NASA's TESS Follow-up Group (TFOP)	2015-present
Reviewer for $JWST$ and HST	2015, 2023
PI ZEIT Collaboration	2015-present
Reviewer for Erwin Schroedinger Fellowship	2020
NASA (XRP) external grant reviewer	2018, 2019

Recent Public & Outreach Talks

Astronomy on Tap, Raleigh	2024
Symposium on Horizons in Astronomy	
and Physics Education (SHAPE)	Feb 2020
Astronomy on Tap, Durham	Nov 2018
Gasparilla Teachers Association	Jul 2018
Astronomy on Tap, Austin	Mar 2017

EXES	Teacher	Meeting
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June 2017