
Queue Observer, Affiliate Assistant Astronomer MMT Observatory Steward Observatory 933 N Cherry Ave. Tucson, AZ 85721	Office: (520) 879-4548 Email: chunly@email.arizona.edu or astro.chun@gmail.com WWW: http://www.mmt.org/~chunly/ git: astrochun ORCID: 0000-0002-4245-2318
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RESEARCH INTERESTS

- (1) Galaxy evolution and formation, star formation, chemical enrichment, diagnostic spectroscopy
- (2) Extragalactic radio jets on sub-parsec scales, high-resolution very long baseline interferometry

EDUCATION

University of California, Los Angeles, **Ph.D.**, Astronomy 2010
Advisor: Matthew A. Malkan
Thesis: “*The Universe as Viewed from Star-forming Galaxies over the Past 10 Billion Years*”

University of California, Los Angeles, **M.Sc.**, Astronomy, *Summa Cum Laude* 2006
Advisor: Matthew A. Malkan
Thesis: “*The Luminosity Function and Star Formation Rate between Redshifts of 0.07 and 1.47 for Narrowband Emitters in the Subaru Deep Field*”

University of Arizona, Tucson, **B.Sc.**, Astronomy and Physics, *Magna Cum Laude* 2004

RESEARCH AND ASTRONOMY-RELATED APPOINTMENTS

Queue/Professional Observer, MMT Observatory 09/2016
Affiliate Assistant Astronomer, University of Arizona (Steward Observatory) 06/2016
NASA Postdoctoral Fellow, NASA GSFC (Advisor: Jane Rigby) 10/2013 – 09/2016
Visiting Fellow, STScI 10/2013
Giacconi Postdoctoral Fellow, STScI (Advisor: Ron Allen) 09/2010 – 10/2013
NASA Graduate Student Research Program (GSRP) Fellow, UCLA/JPL 09/2008 – 08/2010
(Advisors: Daniel Stern and Leonidas Moustakas)
Summer Graduate Student Researcher, Carnegie Observatories 06/2008 – 09/2008
Graduate Student Researcher, UCLA 03/2005 – 06/2008
Graduate Summer Researcher, NRAO–Socorro 06/2004 – 09/2004
NASA Arizona Space Grant Researcher, NOAO–Tucson 08/2003 – 05/2004
NSF REU Summer Researcher, NRAO–Socorro 06/2003 – 08/2003

HONORS AND AWARDS

2013 – NASA Postdoctoral Fellowship, NASA GSFC
2010 – Giacconi Postdoctoral Fellowship, STScI
2009 – Chambliss Astronomy Achievement Student Award, American Astronomical Society
2008 – Graduate Student Research Fellowship, NASA
2008 – Incentive Award for Extramural Funding, UCLA's Astronomy Department
2006 – Graduate Research Mentorship Award, UCLA
2005 – Departmental Outstanding Teaching Award, UCLA

2004 – *Eugene V. Cota-Robles Fellowship*, UCLA
 2003 – *Galileo Circle Scholarship*, U. Arizona
 2002 – *Fred and Ida McCormick Scholarship*, U. Arizona
 2002 – *San Diego Astronomy Association's Lucas Scholarship*, U. Arizona
 2001 – *Phi Eta Sigma National Honor Society*, U. Arizona

SERVICE

Referee for *Astrophysical Journal*, *Astrophysical Journal Letters*
 Referee for *Astronomy & Astrophysics*
 Referee for *Research in Astronomy & Astrophysics*
 Referee for *Monthly Notices of the Royal Astronomical Society*
 NASA Astrophysics Data Analysis Program (ADAP), Peer Reviewer 2015
 Hubble Space Telescope Time Allocation Committee, Peer Reviewer 2014 (Cycle 22)
 CFHT (Taiwan) Time Allocation, External Referee 2012–2014
 China Telescope Access Program, External Referee 2013, 2015
 Hubble Space Telescope Time Allocation Committee, Support Staff 2011, 2012
 Postdoctoral Researcher Mentoring Committee for STScI 2011 – 2012
 JHU-STScI CoolSci/HotSci Colloquium, Organizer for STScI 2011
 JHU-STScI Wine and Cheese Talk Series, Organizer for STScI 2011
 STScI/JHU Very Wide Field Surveys Conference, Local organizer 2011

ADVISORSHIP AND EDUCATIONAL PUBLIC OUTREACH

Summary: I have mentored or am mentoring 11 undergraduate students and one data analyst with in-person interactions on a regular basis

Caroline McCormick, undergraduate at the University of Arizona 2019 –
 Mentoring on the evolution of the mass–metallicity relation

Scott McKinley, University of Arizona, NASA Space Grant Undergraduate Researcher 2017–2018
 Mentoring on metallicity diagnostics and recalibrating such diagnostics for the high- z universe

Rafia Bushra, undergraduate at the University of Arizona 2017
 Mentoring on the evolution of the mass–metallicity relation

Reagen Leimbach, University of Arizona, NASA Space Grant Undergraduate Researcher 2017 –
 Mentoring on metallicity diagnostics and recalibrating such diagnostics for the high- z universe

Drew Weldon, University of Arizona, NASA Space Grant Undergraduate Researcher 2016 –
 Mentoring on stellar population in dwarf galaxies

Kaitlyn Shin, Stanford University, NASA Summer Student 2015 –
 Mentored for 10 weeks on studying the environment effects on star-forming galaxies.

NASA's Hubble 25th Anniversary Family Day Event 2015
 Answered questions from the general public at Smithsonian's National Air and Space Museum (Steven F. Udvar-Hazy Center)

Mithi de los Reyes, North Carolina State University, STScI Summer Student 2013 – 2015
 Mentored for over a year on analyzing spectra. Project has culminated into a first-author peer-review paper in the *Astronomical Journal* for Mithi.

Bryan Hilbert, Senior Research Instrument Analyst at STScI Advised for several months on reduction of ground-based near-infrared imaging data.	2013
<u>Project ASTRO</u> I visited a public school and spoke with over 100 4 th and 5 th graders about astronomy throughout the academic year.	2011 – 2013
Jesse Feddersen, Indiana University, STScI Summer Student Mentored for 10 weeks on analyzing spectra. Attending Yale for Astronomy Ph.D.	2012
Mary Christian, undergraduate student at UCLA Mentored for 10 weeks on analyzing spectra.	2009
Celestine Grady, undergraduate student at UCLA Mentored for a year on data reduction. Her work has contributed toward at least two co-authored papers. She received a M.Sc. from U. California–Davis.	2007 – 2008
Christopher Rodriguez, undergraduate student at UCLA Mentored for two years on space-based data reduction and analysis.	2005 – 2007

TEACHING EXPERIENCE

<i>Software/Data Carpentry Instructor, the Carpentries</i>	July 2018 –
<i>Guest Lecturer, “The Gaseous Interstellar Medium” (UCLA)</i> Graduate-level course. Discussed nebular emission from ionized gas.	Spring 2009
<i>Teaching Assistant, “Astrophysics II: Stellar Evolution and Galaxies” (UCLA)</i> A required course offered for astronomy and physics majors. Led weekly discussions and created in-course laboratory assignments for a classroom of ~30 students. Received an Outstanding Teaching Award in 2005.	Spring 2005
<i>Teaching Assistant, “Astrophysics I: Stars and Nebulae” (UCLA)</i> A required course offered for astronomy and physics majors. Led weekly discussions and created in-course laboratory assignments for a classroom of ~30 students	Winter 2005
<i>Teaching Assistant, “Nature of the Universe” (UCLA)</i> An introductory astronomy course for non-science majors. Led weekly discussions and laboratory exercises for a classroom of ~30 students.	Fall 2004

PROFESSIONAL AFFILIATIONS

Member, International Astronomical Union	2018 –
Member, NewH α Survey Science Collaboration	2008 –
Member, Subaru Deep Field Science Collaboration	2005 –
Member, American Astronomical Society	2004 – 2017

GRANTS AND OBSERVING PROPOSALS

Summary: Over 36 telescope nights approved as PI or Science PI, and nearly the equivalent of ~156 nights in total. Approximately \$300,000 in grants have been awarded as PI or Science PI.

Role	Source Name	Year	Amount
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PI	NASA	Keck PI grant	2017	\$12,500
PI	NASA	<i>Spitzer</i> GO program	2015	\$10,000
Co-I	NASA	<i>Hubble</i> GO program	2015	N/A
Science PI	NASA	Astrophysics Data Analysis Program	2015	\$104,400
PI	NASA	Keck PI grant	2015	\$16,000
PI	NASA	Keck PI grant	2015	\$13,000
PI	NASA	Postdoctoral Fellowship Travel Grant	2015	\$8,000
PI	NASA	Keck PI grant	2014	\$12,750
PI	NASA	Postdoctoral Fellowship Travel Grant	2014	\$8,000
PI	NASA	Postdoctoral Fellowship Travel Grant	2013	\$8,000
PI	NASA	Giacconi Fellowship Start-up Grant	2010	\$48,000
Science PI	NASA	Graduate Student Researcher Fellowship	2009	\$30,000
Science PI	NASA	Graduate Student Researcher Fellowship	2008	\$30,000

Observatory	Instrument	Nights/Hours as PI or Science PI	Total Nights or Hours	Number of Proposals
<i>Hubble</i>	WFC3	–	20 orbits	1
<i>Spitzer</i>	IRAC	16.5 hr	16.5 hr	1
10-m Keck I	MOSFIRE	2	5.5	4
10-m Keck II	DEIMOS	4	10	6
10-m Keck II	NIRSPEC	1	1	1
8.2-m Subaru	FMOS	7	13	6
8.2-m Subaru	Suprime-Cam	–	9.5	4
8.2-m Subaru	MOIRCS	–	4	2
8.2-m Subaru	FOCAS	–	2	1
8.2-m Subaru	IRCS+A0188	–	0.5	1
8.1-m Gemini-North	GNIRS	36.1 hr	36.1 hr	3
6.5-m Magellan	FourStar	–	4	1
6.5-m MMT	Hectospec	3.5	3.5	3
6.5-m MMT	MMIRS	2.5	2.5	2.5
4-m Kitt Peak–Mayall	NEWFIRM	8	21	6
4-m Kitt Peak–Mayall	MOSAIC	2	2	1
4-m Cerro Tololo–Blanco	NEWFIRM	5	14	2
4-m UKIRT	WFCAM	–	4	2
ALMA	450,880,1100 μ m	–	1.1 hr	1
CARMA	1.3mm imaging	–	10 hr	1

SMA	1100 μ m imaging	–	1	1
NRAO VLBA	7mm imaging	9 hr	561 hr	13
NRAO VLA	21-cm imaging	–	28 hr	1

PUBLICATIONS (As of January 1, 2019)

38 peer-review papers, 13 are first-authored

2135 citations to peer-review papers, 573 citations to first-authored papers

Hirsch *h*-index: 24 papers with ≥ 24 citations

A complete list of publications can be found here: <http://www.mmt.org/~chunly/Bib.pdf>

REFERENCES

Matthew A. Malkan

Professor

Univ. of California, Los Angeles

email: malkan@astro.ucla.edu

Grant G. Williams

Director

MMT Observatory

email: gwilli@mmt.org

Janice C. Lee

Associate Astronomer

IPAC / Caltech

email: janice@ipac.caltech.edu

Buell T. Jannuzi

Department Head, Director of Steward Observatory

Univ. of Arizona/Steward Observatory

email: buelljannuzi@email.arizona.edu

TALKS

Invited Talks or Colloquia:

Event	Date
Invited: Special talk, Internal Council of UNAM-Institute of Astronomy (Mexico City, Mexico)	11/2015
Invited: <i>NASA Sciences and Exploration Directorate Seminar</i> (Greenbelt, MD)	06/2014
<i>Shanghai Astronomical Observatory Colloquium</i> (Shanghai, China)	03/2014
Invited: <i>NAOJ Subaru Seminar</i> (Hilo, HI)	03/2014
<i>JHU-STScI HotSci Colloquium</i> (Baltimore, MD)	07/2013
Invited: <i>Hubble Fellows Symposium</i> (Baltimore, MD)	03/2013
Invited: <i>Dark Cosmology Centre</i> (Copenhagen, Denmark)	01/2013
Invited: <i>NAOJ Subaru Seminar</i> (Hilo, HI)	04/2012
Invited: <i>ASU Cosmology Seminar</i> (Tempe, AZ)	03/2012
<i>JHU-STScI HotSci Colloquium</i> (Baltimore, MD)	08/2011
<i>CTIO Science Colloquium</i> (La Serena, Chile)	03/2011
Invited: <i>JPL Astrophysics Lunch Talk Series</i> (Pasadena, CA)	06/2008
Invited: <i>NOAO Scientific Lunch Talk Series</i> (Tucson, AZ)	04/2007

Conference Talks:

Event	Date
<i>Galaxy of Many Colours Conference</i> (Marstrand, Sweden)	06/2015
<i>AAS 225th Meeting</i> (Seattle, WA)	01/2015
<i>Keck Science Meeting</i> (Pasadena, CA)	10/2014
<i>European Week of Astronomy and Space Sciences</i> (Geneva, Switzerland)	07/2014
<i>AAS 223rd Meeting</i> (Washington, DC)	01/2014
<i>AAS 221st Meeting</i> (Long Beach, CA)	01/2013
<i>AAS 215th Meeting Dissertation Talk</i> (Washington, DC)	01/2010
<i>Harvesting the Redshift Desert Conference</i> (Marseille, France)	07/2009

Seminars and Other Talks (Since 2010):

Event	Date
<i>STScI Galaxy Journal Club</i> (Baltimore, MD)	03/2016
<i>East Asian Observatory Seminar</i> (Hilo, HI)	03/2015
<i>University of Maryland CARMA Seminar</i> (College Park, MD)	11/2014
<i>STScI Galaxy Journal Club</i> (Baltimore, MD)	11/2014
<i>JHU CAS Wine and Cheese Seminar</i> (Baltimore, MD)	11/2014
<i>NASA Goddard Stellar and Extragalactic Astronomy Lunch</i> (Greenbelt, MD)	12/2012
<i>NOAO Scientific Lunch Talk</i> (Tucson, AZ)	03/2012