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

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

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

00/2017

HONORS AND AWARDS

2013 -	NASA	Postdoctora.	l Fellowshin	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

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
Mentoring on the evolution of the mass–metallicity relation

STScI/JHU Very Wide Field Surveys Conference, Local organizer

2018 -

2011

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 Mentoring on the evolution of the mass–metallicity relation

2017

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

Mentoring on stellar population in dwarf galaxies

2016 –

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

NASA's Hubble 25th Anniversary Family Day Event
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.

Project ASTRO 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	
Software/Data Carpentry Instructor, the Carpentries	July 2018 –
Guest Lecturer, "The Gaseous Interstellar Medium" (UCLA) Graduate-level course. Discussed nebular emission from ionized gas.	Spring 2009
Teaching Assistant, "Astrophysics II: Stellar Evolution and Galaxies" (UCLA) 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
Teaching Assistant, "Astrophysics I: Stars and Nebulae" (UCLA) 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
Teaching Assistant, "Nature of the Universe" (UCLA) 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 Member, NewHα Survey Science Collaboration Member, Subaru Deep Field Science Collaboration Member, American Astronomical Society	2018 – 2008 – 2005 – 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
PI	NASA Keck PI grant	2017	\$12,500

PI	NASA	Spitzer GO program	2015	\$10,000
Co-I	NASA	Hubble 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
Hubble	WFC3	_	20 orbits	1
Spitzer	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	450,880,1100μm	_	1.1 hr	1
CARMA	1.3mm imaging	_	10 hr	1
SMA	1100μm imaging	_	1	1

NRAO VLBA	7mm imaging	9 hr	561 hr	13
NRAO VLA	21-cm imaging	_	28 hr	1

PUBLICATIONS (As of August 31, 2019)

39 peer-review papers, 13 are first-authored

2246 citations to peer-review papers, 594 citations to first-authored papers

Hirsch *h*-index: 25 papers with \geq 25 citations

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

TALKS

Invited Talks or Colloquia:

Event	Date
Invited: NOAO Science Talk (Tucson, AZ)	04/2019
Invited: Special talk, Internal Council of UNAM-Institute of Astronomy (Mexico City, Mexico)	11/2015
Invited: NASA Sciences and Exploration Directorate Seminar (Greenbelt, MD)	06/2014
Shanghai Astronomical Observatory Colloquium (Shanghai, China)	03/2014
Invited: NAOJ Subaru Seminar (Hilo, HI)	03/2014
JHU-STScI HotSci Colloquium (Baltimore, MD)	07/2013
Invited: Hubble Fellows Symposium (Baltimore, MD)	03/2013
Invited: Dark Cosmology Centre (Copenhagen, Denmark)	01/2013
Invited: NAOJ Subaru Seminar (Hilo, HI)	04/2012
Invited: ASU Cosmology Seminar (Tempe, AZ)	03/2012
JHU-STScI HotSci Colloquium (Baltimore, MD)	08/2011
CTIO Science Colloquium (La Serena, Chile)	03/2011
Invited: JPL Astrophysics Lunch Talk Series (Pasadena, CA)	06/2008
Invited: NOAO Scientific Lunch Talk Series (Tucson, AZ)	04/2007

Conference Talks:

Event	Date
MMT 40 th Symposium (Tucson, AZ)	05/2019
Galaxy of Many Colours Conference (Marstrand, Sweden)	06/2015
AAS 225 th Meeting (Seattle, WA)	01/2015
Keck Science Meeting (Pasadena, CA)	10/2014
European Week of Astronomy and Space Sciences (Geneva, Switzerland)	07/2014
AAS 223 rd Meeting (Washington, DC)	01/2014
AAS 221st Meeting (Long Beach, CA)	01/2013

AAS 215th Meeting Dissertation Talk (Washington, DC)	01/2010
Harvesting the Redshift Desert Conference (Marseille, France)	07/2009

Seminars and Other Talks (Since 2010):

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