John Chisholm
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RESEARCH INTERESTS

I observe the first galaxies in the universe and constrain the astrophysics that sculpted the first stars. This includes the production and escape of ionizing photons that reionized the early universe, as well as the generation of galaxy-scale star formation driven outflows that regulate star formation within galaxies. While observationally based, my research often employs simple theoretical models to deeply explore the astrophysics behind the observations.

QUICK METRICS

Accepted First Author Publications: 14 **Total H-index:** 54
PI JWST Hours: 280 **Total JWST Hours:** 1,304.8
PI HST Orbits: 230 **Total HST Orbits:**2,172
Total HST Orbits at UT: 1231 **Allocated HET Hours (PI+group):** 180.7
Total Funding at UT: $4.61 Million

EDUCATION

PhD, Astronomy, University of Wisconsin **2010–2016**
- Thesis title: "*The physical conditions and scaling relations of multi-phase galactic outflows.*"
- Advisor: Christy Tremonti

B.S., Physics, minor Mathematics, Boston College **2006–2010**

RESEARCH HISTORY

Assistant Professor University of Texas at Austin **2020–present**

NHFP Hubble Fellow University of California–Santa Cruz **2019–2021**

IMPS Fellow University of California–Santa Cruz **2018–2019**

Post-doctoral Researcher University of Geneva, Switzerland **2016–2018**
- Advisor: Prof. Daniel Schaerer

Research Assistant University of Wisconsin **2010–2016**
- Advisor: Prof. Christy Tremonti

NSF EAPSI Fellow Academia Sincia, Taipei, Taiwan **2013**
- Advisor: Dr. Satoki Matsushita

OBSERVING PROPOSALS PRINCIPAL INVESTIGATOR

HST Cycle 34 **2026**
- Title: *"Lyman Continuum and Lyman Alpha escape in the high-ionization conditions observed in the Epoch of Reionization"*
- Proposal ID: 18435
- 55 orbits
- Pending funding: $160,000

JWST Cycle 4 **2025**
- Title: *"How I wonder what you are – do JWST's Little Red Dots twinkle? Testing broad-line and continuum variability on week, month, and six-month timescales"*

- Proposal ID: 7404
- 49.3 hours
- Co-PI: Rohan Naidu

JWST Cycle 4 **2025**
- Title: *" Resolving Multi-phase Outflow/Inflow via Gas Dynamics and Chemical Abundance Distribution in a Sub-L* Dwarf Galaxy at z=6.1"*
- Proposal ID: 6791
- 60.9 hours
- Funding: $145,498
- Co-PI: Seiji Fujimoto

Hobby Eberly Telescope Trimester 3 **2024**
- Title: *"GLARE: Galaxies Lensed to Analyze and Reveal the Epoch of reionization"*
- Proposal ID: UT22-2-016
- 10 P1 hours, 20 P2 hours

NASA/Keck Semester 2023B **2023**
- Title: *"Mapping the Baryon Cycle in the Nearest Metal Poor Outflow"*
- Proposal ID: N236
- 1 night (2 half nights)
- Funding: $13,750

JWST Cycle 2 **2023**
- Title: *"JWST's GLIMPSE: gravitational lensing & NIRCam imaging to probe early galaxy formation and sources of reionization"*
- Proposal ID: 3293
- 147.8 hours
- Funding: $ 614,736

Atacama Large Millimeter Array Cycle 9 **2022**
- Title: *"Maps of outflows in Starbursting Disk Galaxies"*
- Proposal ID: 2022.1.00394.S
- 32.9 Band C hours

Hobby Eberly Telescope Trimester 2 **2022**
- Title: *"Spatially resolving the Mg II and optical lines within confirmed emitters of ionizing photons"*
- Proposal ID: UT22-2-016
- 1.8 P0 hour, 4 P1 hours, 1.5 P3 hours

Hobby Eberly Telescope Trimester 1 **2022**
- Title: *"Spatially resolving the Mg II and optical lines within confirmed emitters of ionizing photons"*
- Proposal ID: UT22-1-011
- 6.5 P1 hour, 6 P2 hours, 6 P3 hours

NASA/Keck Semester 2021B **2021**
- Title: *"Lyman-Alpha and Mg II Maps Constrain the Volume-Averaged LyC Escape Fraction"*
- Proposal ID: 71/2021B_N110
- 2 half nights
- Funding: $11,650

James Webb Space Telescope Cycle 1 **2021**
- Title: *"The First Observations of the Ionizing Luminosity of Galaxies within the Epoch of Reionization"*

- 22.2 hours
- Proposal ID: 1871
- Funding: $274,275

Hobby Eberly Telescope Trimester 2 **2021**
- Title: *"The first observations of the escape of ionizing photons from a gravitationally lensed galaxy at the edge of reionization"*
- 1 P0 hour, 4.8 P1 hours

Harlan J. Smith Semester 2021-2 **2021**
- Title: *" COOL-LAMPS: Towards a statistical sample of strongly lensed galaxies at the peak of cosmic star-formation "*
- 3 nights

South African Large Telescope Semester 2021 DDT **2021**
- Title: *"Opening a new window onto the core properties of the most massive stars with simultaneous SALT/HRS and HST spectroscopy"*
- 10 hours

European Southern Observatory Semester 2021 VLT DDT **2021**
- Title: *"Opening a window onto the core properties of massive stars with simultaneous VLT+HST spectroscopy"*
- Proposal ID: 106.21V8
- 11.2 hours

Gemini South Semester 2020B Fast Turnaround Time **2021**
- Title: *"An IGRINS Time-Series to Reveal the Source of Massive Star Variability"*
- Proposal ID: GS-2020B-FT-201
- 12.6 hours

Hobby Eberly Telescope Trimester 1 **2021**
- Title: *"Determining the nebular emission properties of the lowest stellar mass LyC emitter"*
- 2 hours

Hobby Eberly Telescope Trimester 1 **2021**
- Title: *"Mapping the Circum-Galactic Medium with Optical Emission Lines in a Milky Way Analog"*
- 3.5 Priority 3 hours

Hobby Eberly Telescope Trimester 1 **2021**
- Title: *"Mapping the Circum-Galactic Medium with Optical Emission Lines in a Milky Way Analog"*
- 10 hours

Hubble Space Telescope Cycle 28 Mid-Cycle **2021**
- Title: *" Mapping the Porous Neutral Gas Reservoir in an Extremely High Ionization Galaxy"*
- 15 orbits
- Project ID: 16464
- $126,901 of funding

Harlan J. Smith Trimester 1 **2021**
- Title: *"What powered cosmic reionization? A sample of low metallicity Local Group massive stars to test the source of reionization"*
- 3 nights

Harlan J. Smith Trimester 1 **2021**
- Title: *" Mapping Mpc-sized Lyman Alpha Halos Around Giant Radio Quasars "*
- 4 nights

Hobby Eberly Telescope Trimester 3 **2020**

- Title: *"Mapping the Circum-Galactic Medium with Optical Emission Lines in a Milky Way Analog"*
- 10 hours

Harlan J. Smith Trimester 3 **2020**

- Title: *"What powered cosmic reionization? A sample of low metallicity Local Group massive stars to test the source of reionization"*
- 3 nights

Gemini South Semester 2020B **2020**

- Title: *"Jumping Off the Upper-End: Constraining the mass-loss rates of the most massive stars in the universe with infrared spectroscopy"*
- Proposal ID: GS-2020B-Q-223
- 13.4 hours

NASA/Keck Semester 2020B **2020**

- Title: *"Constraining the stellar astrophysics that powered Cosmic Reionization with KCWI"*
- Proposal ID: 66/2020B_N194
- 2 half nights
- Funding: $14,100

Hubble Space Telescope Cycle 28 **2020**

- Title: *"Digging deep into massive star variability: Do massive stars vary due to internal gravity waves or stellar winds?"*
- Proposal ID: 16304
- 26 orbits
- Funding: $138,235

Hubble Space Telescope Cycle 27 **2019**

- Title: *"Constraining the Stellar Astrophysics Powering Cosmic Reionization: Spectral Templates of Extremely Low-metallicity Main sequence O-stars"*
- Proposal ID: 15967
- 49 orbits
- Funding: $199,000

Hubble Space Telescope Cycle 27 **2019**

- Title: *"What lurks below the Lyman-Limit? Uncovering the unseen ionizing continuum of massive stars"*
- Proposal ID: 15966
- 27 orbits
- Funding: $139,000

Hubble Space Telescope Cycle 27 **2019**

- Title: *"Deciphering Cosmic Reionization with Mg II Emission: Uncovering the most Promising Tracer of LyC Escape for JWST"*
- Proposal ID: 15845
- 30 orbits
- Funding: $118,000
- Role: Writer, Co-PI

NASA/Keck Semester 2019B **2019**

- Title: *''Spatially Mapping How Photons Escape Neutral Gas with Mg II Emission''*
- Proposal ID: 52/2019B_N107
- 1 night

- Funding: $12,350

Lick/Shane 3-m Telescope Second Semester 2019 **2019**
- Title: *"Unearthing the unseen ionizing continua of massive stars with optical emission lines"*
- 3 nights

NRAO/Very Large Array Semester 2018B **2018**
- Title: *''Do Gas Mass Fractions Shape the Mass-Metallicity Relation?''*
- Proposal ID: VLA/18B-147

NOAO/Large Binocular Telescope Semester 2018B **2018**
- Title: *''Confirming that 5 galaxies are in the epoch of reionization and testing if they emit ionizing photons''.*
- Proposal ID: 2018B-0358
- 1 night

Hubble Space Telescope Mid-Cycle, Cycle 25 **2017**
- Title: *"The sub-kiloparsec comparison of stellar clumps and molecular gas within the spiral arms of a high-redshift galaxy"*
- Proposal ID: 15435
- 4 orbits

Hubble Space Telescope GO proposal, Cycle 25 **2017**
- Title: *"Do galactic outflows shape the stellar mass-metallicity relationship?"*
- Proposal ID: 15099
- 24 orbits
- Funding: $43,909

Hubble Space Telescope Archival Project, Cycle 21 **2013**
- Title: *"An Archival COS Study of Multi-phase Galactic Outflows and Their Dependence on Host Galaxy Properties"*
- Proposal ID: 13239
- Funding: $115,172

NSF East Asian South Pacific Institute Summer Fellow **2013**
- Funding: $5,070

OBSERVING PROPOSALS

Graduate students and postdocs that I mentored are highlighted with a †.

CO-INVESTIGATOR

Hubble Space Telescope Cycle 34 **2026**
- Title: *"Ionizing Spectral Templates of Metal-Poor Massive Stars Informed by Far-Ultraviolet Spectroscopy"*
- Proposal ID: 18461
- Archival Research Grant
- Principal Investigator: Christi Erba

Hubble Space Telescope Cycle 34 **2026**
- Title: *"Illuminating the Physics of the Baryon Cycle with HIGHLIGHTS: the HST Imaging of Galaxy Halo LIGHT Survey"*
- Proposal ID: 18402
- 160 orbits
- Principal Investigator: Kate Rubin

Hubble Space Telescope Cycle 34 **2026**
- Title: *"Illuminating the Physics of the Baryon Cycle with HIGHLIGHTS: the HST Imaging of Galaxy Halo LIGHT Survey"*
- Proposal ID: 18402
- 160 orbits

- Principal Investigator: Kate Rubin

Hubble Space Telescope Cycle 34 **2026**

- Title: *"LRD or EELG? Confirming a Large Sample of Low-z LRDs with WFC3/G141 Grism Spectroscopy"*
- Proposal ID: 18396
- 105 orbits
- Principal Investigator: Ansh Gupta

Hubble Space Telescope Cycle 34 **2026**

- Title: *"The First UV-Based Metallicity Constraints for AGN Dwarf Galaxies"*
- Proposal ID: 18343
- 32 orbits
- Principal Investigator: Archana Aravindan

James Webb Space Telescope Cycle 4 Director's Discretionary Time **2025**

- Title: *"SN Eos: A Multiply-Imaged, 30x Magnified SN Near the Epoch of Reionization"*
- Proposal ID: 9493
- 10.1 hours
- Principal Investigator: David Coulter

James Webb Space Telescope Cycle 3 Director's Discretionary Time **2025**

- Title: *"Let there be Light: Directly Witnessing the Birth of Metal-Free, Pop III Stars in an Ultra-Faint Galaxy at z=6.5"*
- Proposal ID: 9223
- 38.8 hours
- UT Funding: $ 40,000
- Principal Investigator: Seiji Fujimoto

James Webb Space Telescope Cycle 4 **2025**

- Title: *"Does Bursty Star Formation Explain the Astonishing Abundance of Bright z>10 Galaxies?"*
- Proposal ID: 9165
- 57.2 hours
- Principal Investigator: Ryan Endsley †

James Webb Space Telescope Cycle 4 **2025**

- Title: *"Unlocking the massive stars behind the most spectacular fireworks displays in the early Universe"*
- Proposal ID: 8792
- 81.8 hours
- Principal Investigator: Peter Senchyna

James Webb Space Telescope Cycle 4 **2025**

- Title: *"Formation and nature of the UV-brightest starbursts in the distant Universe"*
- Proposal ID: 8258
- 38.0 hours
- UT Funding: $ 244,769
- Principal Investigator: Rui Marques-Chaves

James Webb Space Telescope Cycle 4 **2025**

- Title: *"Sleeping Beauties: On the Search for Dormant Galaxies in the First Gyr"*
- Proposal ID: 7511
- 20 hours
- Principal Investigator: Alba Covelo-Paz

James Webb Space Telescope Cycle 4 **2025**

- Title: *" A Race Against the Clock: Too Much Nitrogen, Too Early?"*
- Proposal ID: 7081
- 25.9 hours
- Principal Investigator: Danielle Berg

James Webb Space Telescope Cycle 4 **2025**

- Title: *" The CLASSYIR Treasury: Unveiling the Cosmic Engines Powering Galaxies with JWST/MIRI"*
- Proposal ID: 7041
- 78.7 hours
- Principal Investigator: Danielle Berg

James Webb Space Telescope Cycle 4 **2025**

- Title: *"Vast Exploration for Nascent, Unexplored Sources (VENUS)"*
- Proposal ID: 6882
- 251.7 hours
- Principal Investigator: Seiji Fujimoto
- UT Funding: $345,001

Hubble Space Telescope Cycle 33 **2025**

- Title: *"Spatially resolving the conditions for ionizing radiation escape in galaxies"*
- Proposal ID: 18088
- 55 orbits
- Principal Investigator: Danielle Berg

Hubble Space Telescope Cycle 33 **2025**

- Title: *"Spatially resolving the conditions for ionizing radiation escape in galaxies"*
- Proposal ID: 18034
- 40 orbits
- Principal Investigator: Alberto Saldana-Lopez

Keck Semester 2025B **2025**

- Title: *"A KCWI View of Nitrogen Production and Ionizing Feedback from the Most Massive Metal-Poor Stars''*
- Proposal ID: N091
- 1 night
- Principal Investigator: Grace Telford†

ALMA Cycle 11 **2024**

- Title: *"Heart of Darkness: The Deepest Intrinsic ALMA+JWST Glimpse of the Early Universe"'*
- Principal Investigator: Vasily Kokorev†
- Proposal ID: 2024.1.00876.S
- 49.7 hours of Priority C

Hubble Space Telescope Cycle 32 **2024**

- Title: *"Mg II maps to reveal how ionizing photons escape local LyC emitting galaxies"*
- Proposal ID: 17761
- 31 orbits
- $ 119,307 of funding
- Principal Investigator: Floriane Leclercq†

Hubble Space Telescope Cycle 32 **2024**

- Title: *"Exploring the unexpected interplay between Lyman-alpha and C IV emission using spatially resolved imaging"*
- Proposal ID: 17702
- 25 orbits
- Principal Investigator: Simon Gazagnes

Hubble Space Telescope Cycle 32 **2024**

- Title: *"A Race Against the Clock: Too Much Nitrogen, Too Early?"*
- Proposal ID: 17791
- 26 orbits
- Principal Investigator: Danielle Berg

Hubble Space Telescope Cycle 32 **2024**

- Title: *"Completing the picture of high-ionization UV emission powered by the most metal-poor massive star populations"*
- Proposal ID: 17771
- 32 orbits
- Principal Investigator: Peter Senchyna

Keck Semester 2024B **2024**

- Title: *"Completing a Legacy Spectral Atlas of Extremely Metal-Poor O Stars"*
- Proposal ID: N015
- 1.5 night
- Principal Investigator: Grace Telford†

Keck Semester 2024B **2024**

- Title: *"Did ultra-bright galaxies reionize the universe? Spatially-resolved H I observations of the brightest z 2 galaxies."*
- Proposal ID: N101
- 1 night
- $ 15,726 of funding
- Principal Investigator: Floriane Leclercq†

Keck Semester 2024B **2024**

- Title: *"Did Obscured AGN Feedback at z ¿ 6 Cause the Overabundance of Early Quiescent Galaxies Revealed by JWST?"*
- Proposal ID: N137
- 1 night
- $ 14,750 of funding
- Principal Investigator: Ryan Endsley†

James Webb Space Telescope + Very Large Array Cycle 3 **2024**

- Title: *" Did Radio AGN Feedback Quench the First Massive Galaxies?"*
- Proposal ID: VLA/24B-346
- 18.33 VLA hours
- 4.72 JWST hours
- $52,844 of funding
- Principal Investigator: Ryan Endsley†

James Webb Space Telescope Cycle 3 **2024**

- Title: *"Untangling the Nature of the Kennicutt Relation at the Low End: the Iconic Case of the Giant Low Surface Brightness Galaxy Malin 1"*
- Proposal ID: 05394
- 7.43 hours
- Principal Investigator: Michelle Berg†

James Webb Space Telescope Cycle 3 **2024**

- Title: *"The Host Galaxy, Environment, and Hot Dust Emission of the First Known Extremely-Luminous Obscured AGN at z>6"*
- Proposal ID: 04877
- 7.21 hours
- $121,216 of funding
- Principal Investigator: Ryan Endsley†

James Webb Space Telescope Cycle 3 **2024**

- Title: *"Dissecting Little Red Dots: the connection between early SMBH growth and cosmic reionization"*
- Proposal ID: 05664
- 44.75 hours
- $ 26,000 of funding
- Principal Investigator: Jorryt Matthee

James Webb Space Telescope Cycle 3 **2024**

- Title: *"Red Monsters: Kinematics of Two Universe Breaking, Ultra-Massive Galaxies in the First Gyr"*
- Proposal ID: 05572
- 16.79 hours
- Principal Investigator: Mengyuan Xiao

James Webb Space Telescope Cycle 3 **2024**

- Title: *"Ionization and Obscuration in LyC Emitters: A MIR Look at Lyman Continuum Escape"*
- Proposal ID: 05554
- 24.98 hours
- $25,961 of funding
- Principal Investigator: Sophia Flury

James Webb Space Telescope Cycle 3 **2024**

- Title: *"Deep Spectroscopy of Galaxies at z=4-14: Uncovering Drivers of Early Galaxy Formation and Black Hole Growth"*
- Proposal ID: 05507
- 23.29 hours
- Principal Investigator: Taylor Hutchison

James Webb Space Telescope Cycle 3 **2024**

- Title: *"Galactic Winds in the Early Universe: observing outflows in emission and absorption in a typical z∼6 galaxy"*
- Proposal ID: 05293
- 10.64 hours
- Principal Investigator: Xinfeng Xu

James Webb Space Telescope Cycle 3 **2024**

- Title: *"Mirage or Miracle? Spectroscopic Confirmation of Remarkably Luminous Galaxies at z>10"*
- Proposal ID: 05224
- 33.43 hours
- Principal Investigator: Pascal Oesch

XMM-Newton **2024**

- Title: *"X-raying Strong Lyman Continuum Emitters in the Local Universe"*
- Proposal ID: 094305
- 68,000 s

- Principal Investigator: Ji Zhiyuan

Keck Semester 2024A **2024**

- Title: *"Did Obscured AGN Feedback at $z > 6$ Cause the Overabundance of Early Quiescent Galaxies Revealed by JWST?"*
- Proposal ID: N119
- 1 night
- Principal Investigator: Ryan Endsley†
- $ 14,750 of funding

Keck Semester 2024A/2024B **2024**

- Title: *"Completing a Legacy Spectral Atlas of Extremely Metal-Poor O Stars"*
- Proposal ID: N063
- Multi-cycle: 3 half nights in 2024A and 2 half nights in 2024B
- Principal Investigator: Grace Telford†

Keck Semester 2024A **2024**

- Title: *"A Complete Census of Neutral Outflows at the Peak Epoch of Star Formation"*
- Proposal ID: W449
- 4 half nights
- Principal Investigator: Rebecca Davies

ALMA Cycle 10 **2023**

- Title: *"CLASSY&CO: revealing the molecular gas fueling metal-poor star-forming high-z analogs in the local universe"*
- Principal Investigator: Matilde Mingozzi
- Proposal ID: 2023.1.01290.S

Hubble Space Telescope Cycle 31 **2023**

- Title: *"A Legacy Far-Ultraviolet Spectral Atlas of Extremely Metal-Poor O Stars"*
- Proposal ID: 17491
- 110 orbits
- UT Funding: $ 108,743 requested
- Principal Investigator: Grace Telford †

Hubble Space Telescope Cycle 31 **2023**

- Title: *"Mapping Localized, Feedback-Driven Outflows Across the Nearby, Low-Mass Galaxy Sextans A"*
- Proposal ID: 17557
- Archival
- Principal Investigator: Yong Zheng

Hubble Space Telescope Cycle 31 **2023**

- Title: *"Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor massive stars underlying high-ionization UV nebular emission"*
- Proposal ID: 17526
- 74 orbits
- Principal Investigator: Peter Senchyna

Hubble Space Telescope Cycle 31 **2023**

- Title: *"Benchmarking early-type Wolf-Rayet stars as sources of He II ionizing flux in stellar populations"*
- Proposal ID: 17426
- 26 orbits

- UT Funding: $ 89,598 requested
- Principal Investigator: Andreas Sander

Hubble Space Telescope Cycle 31 **2023**

- Title: *"High-resolution imaging of the ionizing and non-ionizing radiation of extreme starbursts at z 2.4"*
- Proposal ID: 17424
- 24 orbits
- UT Funding: $ 112,945 requested
- Principal Investigator: Rui Marques-Chaves

James Webb Space Telescope Cycle 2 **2023**

- Title: *"Tracing molecular gas in nearby metal-poor systems: the keys to unlocking star-formation in the early universe"*
- Proposal ID: 04278
- 23.99 hours
- Principal Investigator: Matilde Mingozzi

James Webb Space Telescope Cycle 2 **2023**

- Title: *"The LAHst of Us: a Subkiloparsec View Into The Origins Of a Strongly-Lensed Lyman Alpha Halo at z=3"*
- Proposal ID: 03777
- 6.76 hours
- Principal Investigator: Manuel Solimano

James Webb Space Telescope Cycle 2 **2023**

- Title: *"Galaxies Under Construction: Resolved Scaling Relations and Stellar Mass Assembly as Revealed by Lensed Star Forming Clumps at Cosmic Noon"*
- Proposal ID: 04125
- 67.64 hours
- Principal Investigator: Michael Florian

Harlan J. Smith 2023-3 **2023**

- Title: *"Just the BASICs: Linking Gas Flows in the Circumgalactic Medium to Galaxies"*
- Principal Investigator: Michelle Berg†
- 4 Nights

ESO Period 112 **2023**

- Title: *"On the nature of UV emission line galaxies: a study of CIV emitters at the Cosmic Noon"*
- 32 hours
- Principal Investigator: Alberto Saldana-Lopez†
- Proposal ID: 2639

ESO Period 112 **2023**

- Title: *"Metallicity of outflows in star-forming galaxies "*
- 18 hours
- Principal Investigator: Magdalena Hamel Bravo
- Proposal ID: 25V8

Keck Semester 2023B **2023**

- Title: Local to Cosmic Noon: Are Galactic Outflows Seen in Absorption and Emission Lines Tracing the Same Gas? ""
- Proposal ID: O428
- 0.5 night
- Principal Investigator: Xinfeng Xu

Keck Semester 2023B **2023**

- Title: *"Mapping the Baryon Cycle in the Nearest Metal Poor Outflow"*
- Proposal ID: U262
- 1 night (2 half nights)
- Principal Investigator: Karin Sandstrom

Keck Semester 2023B **2023**

- Title: *"Mapping the Baryon Cycle in the Nearest Metal Poor Outflow"*
- Proposal ID: W164
- 1 night (2 half nights)
- Principal Investigator: Deanne Fischer

ESO Period 111 **2023**

- Title: *"Connecting Emission to Absorption: How Far Do Outflows Extend?"*
- 1 night
- Principal Investigator: Nikole Nielsen

Hubble Space Telescope Cycle 30 Mid-Cycle **2022**

- Title: *" Unveiling the origin and nature of the UV-brightest Lyman continuum emitting star-forming galaxy"*
- Proposal ID: 17286
- 5 orbits
- UT Funding: $ 29,023
- Principal Investigator: Rui Marques-Chaves

Hobby Eberly Telescope Trimester 1 **2023**

- Title: *"Spatial Mapping of Intragroup Gas Properties in Emission "*
- Proposal ID: UT23-1-015
- Principal Investigator: Floriane Leclercq†
- 4.5 P0 hours and 4 P1 hours

Hobby Eberly Telescope Trimester 1 **2023**

- Title: *"Spatial Mapping of Intragroup Gas Properties in Emission "*
- Proposal ID: UT23-1-008
- Principal Investigator: Michelle Berg†
- 12 P0 hours and 10 P1 hours

Harlan J. Smith 2023-2 **2023**

- Title: *"Just the BASICs: Linking Gas Flows in the Circumgalactic Medium to Galaxies"*
- Principal Investigator: Michelle Berg†
- 5 Nights

IRAM Telescope Trimester 2 **2022**

- Title: *"CLASSY&CO: tracing the molecular gas fueling metal-poor star forming high-z analogs in the local universe"*
- Principal Investigator: Michael Maseda
- 29.7 B hours

Hobby Eberly Telescope Trimester 3 **2022**

- Title: *"Calibrating the best LyC tracer at high redshift: first simultaneous spectral-mapping of Lya and MgII with LRS2"*
- Proposal ID: UT22-3-004
- Principal Investigator: Floriane Leclercq†
- 5.5 P0 hours

Hobby Eberly Telescope Trimester 3 **2022**

- Title: *" Confirming a Double-Peaked Lyman-alpha Emitter at z=7.08: Unveiling the Connection Between Early Galaxies and their Host Ionized Bubbles "*
- Proposal ID: UT22-3-011
- Principal Investigator: Ryan Endsley†
- 5 P1 hours

Hobby Eberly Telescope Trimester 3 **2022**

- Title: *" Spatial Mapping of Intragroup Gas Properties in Emission "*
- Proposal ID: UT22-3-014
- Principal Investigator: Michelle Berg†
- 7 P1 hours

Hubble Space Telescope Cycle 30 **2022**

- Title: *"Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers and non-leakers"*
- Proposal ID: 17153
- 49 orbits
- UT Funding: $269,241
- Principal Investigator: Floriane Leclercq†

Hubble Space Telescope Cycle 30 **2022**

- Title: *"Preparing to find the sources of the reionization: Testing MgII as a Lyman Continuum tracer using a unique mock JWST sample"*
- Proposal ID: 17148
- 35 orbits
- Proposed UT Funding: $204,884
- Principal Investigator: Floriane Leclercq†

Hubble Space Telescope Cycle 30 **2022**

- Title: *"Are there two classes of Lyman-leaky Galaxies?"*
- Proposal ID: 17220
- 12 orbits
- Principal Investigator: Tim Heckman

Hubble Space Telescope Cycle 30 **2022**

- Title: *"First look at the high-ionization UV nebular emission powered by the youngest stellar populations below 5% solar metallicity: the missing link to the reionization era?"*
- Proposal ID: 17198
- 7 orbits
- Principal Investigator: Peter Senchyna

Hubble Space Telescope Cycle 30 **2022**

- Title: *"Uncovering the Lyman continuum SED of star-forming galaxies from 550 to 912 Angstrom"*
- Proposal ID: 17171
- 25 orbits
- Proposed UT Funding: $145,823
- Principal Investigator: Daniel Schaerer

Hubble Space Telescope Cycle 30 **2022**

- Title: *"Revealing the link between strong LyC emitters and enigmatic CIV emitters"*
- Proposal ID: 17169
- 34 orbits
- Proposed UT Funding: $114,908

- Principal Investigator: Daniel Schaerer

Hubble Space Telescope Cycle 30 **2022**
- Title: *"Studying ionizing photon escape from a bright gravitationally lensed reionization era analog at z=1.43"*
- Proposal ID: 17138
- 10 orbits
- Principal Investigator: Ramesh Mainali

Hubble Space Telescope Cycle 30 **2022**
- Title: *"Lyman continuum leakage in z 0.3 - 0.4 dwarf compact star-forming galaxies with very low metallicities"*
- Proposal ID: 17109
- 34 orbits
- Proposed UT Funding: $22,584
- Principal Investigator: Yuri Izotov

Hubble Space Telescope Cycle 30 **2022**
- Title: *"A Novel View of Local Star-Forming Galaxies With COS"*
- Proposal ID: 17106
- 42 orbits
- UT Funding: $11,974
- Principal Investigator: Claus Leitherer

Hubble Space Telescope Cycle 30 **2022**
- Title: *"Anchoring CNO with an Extremely Metal Deficient Galaxy"*
- Proposal ID: 17102
- 16 orbits
- Principal Investigator: Danielle Berg

Hubble Space Telescope Cycle 30 **2022**
- Title: *"The Lyman-alpha and Continuum Origins Survey (LaCOS)"*
- Proposal ID: 17069
- 119 orbits
- Principal Investigator: Matt Hayes

Hubble Space Telescope Cycle 30 **2022**
- Title: *"Are Galactic Outflows Seen in Absorption and Emission Lines Tracing the Same Gas?"*
- Proposal ID: 17042
- Archival
- Principal Investigator: Xinfeng Xu

NASA/Keck Semester 2022B **2022**
- Title: *"Extremely Metal-Poor O-Stars in Sextans A"*
- 2 half nights
- Principal Investigator: Grace Telford†

Hobby Eberly Telescope Trimester 2 **2022**
- Title: *" Calibrating the best LyC tracer at high redshift: first simultaneous spectral-mapping of Lya and MgII with LRS2"*
- Proposal ID: UT22-2-021
- Principal Investigator: Floriane Leclercq†
- 2.6 P1 hours, 3 P2 hours

Hubble Space Telescope Cycle 29 Mid-Cycle **2022**
- Title: *"The Winds and Ionizing Spectra of the Hottest O Stars at Extremely Low Metallicity"*

- Proposal ID: 16920
- 14 orbits
- Principal Investigator: Grace Telford†

ESO Period 107 **2022**

- Title: *" Direct method outflow metallicity with X-SHOOTER"*
- Proposal ID: 109.23E3
- 12 hours in Priority B
- Principal Investigator: Alex Cameron

South African Large Telescope 2021-2 **2021**

- Title: *"O Stars in Sextans A"*
- Proposal ID: 2021-2-SCI-025
- 4.6 hours
- Principal Investigator: Grace Telford†

Hubble Space Telescope Cycle 29 **2021**

- Title: *""Mapping the escape of ionizing photons across the full ionizing continuum using high-resolution Lyman alpha and C IV observations"*
- Proposal ID: 16643
- 34 orbits
- Principal Investigator: Simon Gazagnes†

Hubble Space Telescope Cycle 29 **2021**

- Title: *"A Family Portrait of the O Stars in the Extremely Metal-Poor Galaxy Sextans A"*
- Proposal ID: 16767
- 32 orbits
- UT Funding: $23,164
- Principal Investigator: Grace Telford†

Hubble Space Telescope Cycle 29 **2021**

- Title: *""The ionizing output of galaxies undergoing the most extreme feedback"*
- Proposal ID: 16644
- 14 orbits
- Principal Investigator: Matt Hayes

Hubble Space Telescope Cycle 29 **2021**

- Title: *""Direct imaging of CGM substructure with 50 parsec resolution"*
- Proposal ID: 16749
- 5 orbits
- UT Funding: $10,114
- Principal Investigator: Nikki Nielsen

Hubble Space Telescope Cycle 29 **2021**

- Title: *"Mapping the escape of Ly alpha and ionizing photons from an extreme emission-line lensed galaxy"*
- Proposal ID: 16733
- 10 orbits
- Principal Investigator: Jane Rigby

Hubble Space Telescope Cycle 29 **2021**

- Title: *"Tracking down the origin of UV photons in local high-z analogues with FUV emission line imaging"*
- Proposal ID: 16763
- 32 orbits

- Principal Investigator: Matilde Mingozzi

Hubble Space Telescope Cycle 29 **2021**
- Title: *""Measuring ionizing photon escape from an exceptionally bright gravitationally lensed arc at z=1.43"*
- Proposal ID: 16710
- 10 orbits
- Principal Investigator: Ramesh Mainali

Hubble Space Telescope Cycle 29 **2021**
- Title: *"Modeling the Mg II-Lyman Alpha Relation as a Calibrator of the Lyman Continuum Escape Fraction"*
- Proposal ID: 16606
- Archival Proposal
- Principal Investigator: Cody Carr

Hubble Space Telescope Cycle 29 **2021**
- Title: *"Feasting on the Riches of Odysseus' Voyages"*
- Proposal ID: 16623
- Archival Proposal
- UT Funding: 51,704
- Principal Investigator: Claus Leitherer

Hubble Space Telescope Cycle 29 **2021**
- Title: *"Unlocking the Potential of Galactic Outflow Observations"*
- Proposal ID: 16633
- Archival Proposal
- Principal Investigator: Evan Schneider

NASA/Keck Semester 2021B **2021**
- Title: *"Stellar feedback at extremely low metallicity with KCWI and HST/COS"*
- 2 half nights
- Principal Investigator: Peter Senchyna

NASA/Keck Semester 2021B **2021**
- Title: *" Metal-Poor Massive Stars in Nearby Galaxies: a Rosetta Stone for Interpreting Observations in the Epoch of Reionization"*
- 2 half nights
- Principal Investigator: Grace Telford†

James Webb Space Telescope Cycle 1 **2021**
- Title: *"Deep spectroscopic insights on star-forming galaxies 2.2 Gyr after the Big Bang"*
- 73.5 hours
- PI: Daniel Schaerer
- UT funding: $ 115,344
- Proposal ID: 1869

James Webb Space Telescope Cycle 1 **2021**
- Title: *"How do ionizing photons escape the Sunburst Arc? "*
- 24.2 hours
- PI: Emil Rivera-Thorsen
- Proposal ID: 2555

James Webb Space Telescope Cycle 1 **2021**
- Title: *"FRESCO: The First Reionization Epoch Spectroscopic COmplete Survey"*
- 53.1 hours

- PI: Pascal Oesch
- UT Funding: $28,300
- Proposal ID: 1895

Magellan Telescope Semester 2021A **2021**
- Title: *"Ionized Gas Kinematics and Emission-Line Profiles of Local LyC Emitters"*
- 2.5 nights
- Principal Investigator: Sally Oey

NASA/Keck Semester 2021A **2021**
- Title: *"The nebular properties of Lyman Continuum Emitters: Deep Spectroscopy of HST low-redshift Lyman Continuum Survey"*
- 2 Night
- Principal Investigator: Anne Jaskot

NASA/Keck Semester 2021A **2021**
- Title: *"KCWI observations of JWST lensed galaxies"*
- 1 Night
- Principal Investigator: Jane Rigby

Keck Swinburne University DDT 2021A
- Title: *" Emission line mapping of the circumgalactic medium around nearby galaxies"*
- 1 night
- Principal Investigator: Deanne Fisher

Large ESO Program Period 106 **2020**
- Title: *"Exploring the inside of ionized bubbles in the reionization epoch: a Lyman alpha spectral atlas"*
- 128 hr
- Principal Investigator: Matt Hayes

ESO Period 106 **2020**
- Title: *"Ionised gas anatomy and kinematics of galaxies in the HST Low-Redshift Lyman Continuum Survey"*
- 32 hr
- Principal Investigator: Goran Ostlin

ESO Period 106 **2020**
- Title: *"Deep spectroscopy of low-z HST Lyman continuum emitters: revealing their ISM and ionizing radiation field properties"*
- 16 hr
- Principal Investigator: Daniel Schaerer

Large Chandra Program Cycle 22 **2020**
- Title: *"Linking High Mass X-ray Binary Populations to Individual Star-forming Regions at Cosmic Noon"*
- 442ks
- Principal Investigator: Matt Bayliss

Keck Semester 2020B **2020**
- Title: *"Mapping Outflows in Starbursting Disk Galaxies with KCWI"*
- 1 Night
- Principal Investigator: Karin Sandstrom

Hubble Space Telescope Cycle 28 **2020**
- Title: *"Mapping Lyman alpha and ionization in the leakiest galaxies"*
- Proposal ID: 16245

- UT Funding: $163,596
- 34 orbits
- Principal Investigator: Goran Ostlin

Hubble Space Telescope Cycle 28 **2020**

- Title: *" A new window on the UV SED of star-forming galaxies: direct measurements of ionizing spectra in the Lyman continuum"*
- Proposal ID: 16271
- UT Funding: $59,107
- 30 orbits
- Principal Investigator: Daniel Schaerer

Hubble Space Telescope Cycle 28 **2020**

- Title: *"A Census of Metals in Low-Mass Galaxies: Quantifying the Metal Retention as a Function of Mass"*
- Proposal ID: 16144
- Archival Project
- Principal Investigator: Kristen Mcquinn

Magellan Telescope Semester 2020B **2020**

- Title: *"Ionized Gas Kinematics and Emission-Line Profiles of Local LyC Emitters"*
- 2 nights
- Principal Investigator: Sally Oey

Green Bank Telescope Director's Discretionary Time **2020**

- Title: *"HI in Reionization-Era Analogs: Finding the Paths of Ionizing Photon Escape"*
- 4 hours
- Principal Investigator: Danielle Berg

Keck Semester 2020A **2019**

- Title: *"Mapping Outflows in Starbursting Disk Galaxies with KCWI"*
- 2 Nights
- Principal Investigator: Karin Sandstrom

NASA/Keck Semester 2020A **2019**

dTitle: *"Mapping Outflows in Starbursting Disk Galaxies with KCWI"* 1 Night Principal Investigator: Alberto Bolatto

NASA/Keck Semester 2020A **2019**

- Title: *"Measuring massive stellar populations in z=1–3 lensed galaxies, and reconciling to the emission lines they power"*
- 1 Night
- Principal Investigator: Jane Rigby

Hubble Space Telescope Cycle 27 **2019**

- Title: *"The COS Legacy Archive Spectroscopic SurveY (CLASSY): A UV Treasury of StarForming Galaxies"*
- Proposal ID: 15840
- 133 orbits
- Project Role: Co-PI; Reionization Science Project Lead
- Principal Investigator: Danielle Berg
- Funding: $123,000

Hubble Space Telescope Cycle 27 **2019**

- Title: *"Lyman Continuum Escape in High Definition"*
- Proposal ID: 15949

- 42 orbits
- Principal Investigator: Michael Gladders

Hubble Space Telescope Cycle 27 **2019**
- Title: *"UV emission line spectra of z ∼0.3-0.4 Lyman continuum emitters a key reference to uncover the source of cosmic reionization"*
- Proposal ID: 15941
- 42 orbits
- Principal Investigator: Daniel Schaerer
- Funding: $4,137

ALMA Cycle 7 **2019**
- Title: *"The cold ISM in nearby analogs of cosmic reionization sources"*
- Principal Investigator: Daniel Schaerer
- Proposal ID: 2019.1.00730.S

AstroSat Semester 7 **2019**
- Title: *"The Sunburst Arc: Spatially resolved imaging of rest-frame 500 Å Lyman-continuum in the brightest lensed galaxy"*
- Proposal ID: A07_165
- 125 ks
- Principal Investigator: Emil Rivera-Thorsen

European Southern Observatory Period 103 **2019**
- Title: *"The influence of geometry on the output of ionizing radiation: a unification scenario for extreme starbursts"*
- Proposal ID: 0103.B-0845(A)
- Principal Investigator: Matthew Hayes

Hubble Space Telescope Cycle 26 **2018**
- Title: *"The Low-Redshift Lyman Continuum Survey"*
- Proposal ID: 15526
- Orbits: 134
- Principal Investigator: Anne Jaskot

Hubble Space Telescope Cycle 26 **2018**
- Title: *"CLUES to galaxy evolution: young star clusters as engines of galactic feedback"*
- Proposal ID: 15527
- Orbits: 60
- Funding: $20,000
- Principal Investigator: Angela Adamo

Hubble Space Telescope Cycle 26 **2018**
- Title: *"Lyman continuum leakage in z∼0.3 - 0.4 dwarf compact star-forming galaxies with stellar masses* $< 10^8$ $M_\odot$*"*
- Proposal ID: 15639
- Orbits: 45
- Funding: $59,992
- Principal Investigator: Yuri Izotov

NRAO/Very Large Array Semester 2018B **2018**
- Title: *"Molecular gas content of Milky Way progenitors at* $z \sim 1-3$*"*
- Principal Investigator: Johan Richard & Miroslava Dessauges

IRAM/NOEMA Semester 2018B **2018**
- Title: *"CO survey of the most strongly lensed galaxies"*
- Principal Investigator: Miroslava Dessauges

Hubble Space Telescope Mid-cycle, Cycle 25 **2018**

- Title: *"Resolving Extreme High-Ionization UV Emission-Line Diagnostics in Preparation for JWST"*
- Proposal ID: 15465
- Orbits: 10
- Principal Investigator: Danielle Berg

James Webb Space Telescope Early Release Science Program **2017**

- Title: *"TEMPLATES: Targeting Extremely Magnified Panchromatic Lensed Arcs and Their Extended Star formation"*
- Role: Science Collaborator
- Proposal ID: 1355
- Principal Investigator: Jane Rigby

Hubble Space Telescope Mid-cycle, Cycle 25 **2017**

- Title: *"The first UV emission line spectrum of a strong low-z Lyman continuum leaker - a key to studying the sources of cosmic reionization"*
- Proposal ID: 15433
- Principal Investigator: Daniel Schaerer

Hubble Space Telescope AR proposal, Cycle 25 **2017**

- Title: *"Interpreting HST UV Spectra of Galactic Winds Using Radiative Transfer of Hydrodynamic Galaxy Simulations in yt"*
- Proposal ID: 15059
- Principal Investigator: Hassen Yesuf

IRAM/NOEMA **2017**

- Title: *"Molecular gas in nearby analogs of cosmic reionization sources"*
- Principal Investigator: Daniel Schaerer

Magellan/MagE **2017**

- Title: *"Spatially Resolved Rest-UV-to-Optical Spectroscopy of A Distant Starburst"*
- Principal Investigator: Matt Bayliss

ALMA Cycle 2 **2013**

- Title: *"Multi-Phase Imaging of the Outflow from the Edge-On Starburst Galaxy NGC 3628"*
- Principal Investigator: Satoki Matsushita
- Proposal ID: 2013.1.00087S

MENTORING EXPERIENCE

Mentoring Students **2017–present**

I mentored masters and PhD. projects for Simon Gazagnes (2017), Grace Olivier (2022), Sébastien Martinet (2019), Ahmed Shaban (2024), Briana Indahl (2021), Alberto Saladano-Lopez (2023), Bronwyn Reichardt (2023), Resherle Verna (2027), Mabel Stephenson (2028), and Michelle Jecmen (2029). I am/was on Simon Gazagnes (2017), Sébastien Martinet (2019), Briana Indahl (2021), Bronwyn Reichardt (at Swinburne University; 2023), and Ahmed Shaban (at North Carolina State University; 2024), thesis committees.

I have mentored three undergraduates Thomas Seive (2022; currently working at Toyota), Chris Malhas (2021-2024), and Victoria Salazar (2023-2024; currently graduate student at University of Massachusetts–Amherst).

Additionally I have mentored TAURUS scholars, including Ian Wolter (2022), and REU students Savannah Solis and Nadara Hudson.

Mentoring Postdocs **2020–present**

Grace Telford (at Princeton University; 2020-present), Michelle Berg (2021-present), Floriane Leclerq (2021-2024), Ryan Endsely (2022-2025), Vasily Kokorev (2024-present), Lukas Furtak (2025-present).

Job placements of former students and postdocs

1. Vasily Kokorev (Postdoc Mentor), 2024-present, awarded Hubble Fellow (2026).
2. Michelle Berg (Postdoc Mentor), 2021-2024, Faculty at Texas Christian University.
3. Victoria Salazar (undergraduate mentor), 2023-2024, graduate student at University of Massachusetts–Amherst
4. Bronwyn Reichardt Chu (Co-Science Mentor), 2020-2023, awarded postdoctoral position at Durham University in 2023.
5. Floriane Leclercq, 2021-2024, awarded Conseil National des Astronomes et des Physiciens (CNAP; permanent position) at the Observatoire de Lyon in 2026.
6. Grace Telford (Science mentor), 2019-2025, awarded Hubble Fellow and Princeton-Carnegie Fellowship. Faculty position at the University of Utah starting in 2026/
7. Simon Gazagnes (Primary Science mentor), 2017-2020, awarded McDonald Fellow in 2021
8. Alberto Saladano-Lopez (Science mentor), 2019-2023, postdoctoral position at Stockholm University
9. Thomas Seive, 2021-2022, data analyst Toyota Motors
10. Briana Indahl, 2020-2021, Staff researcher at University of Colorado Boulder

AWARDS AND PRIZES

Presidents Associates Undergraduate Teaching Excellence Award **2026**

1. Highest honor for undergraduate teaching at the University of Texas.

College of Natural Sciences Teaching Excellence Award **2025**

1. Recognizes excellence among the Colleges many exceptional faculty who are committed to teaching at either the undergraduate or graduate level.
2. Typically ~ 10 awarded annually in the College of Natural Sciences.

PRESS RELEASES

University of Texas at Austin **2023**

- Press release announcing the large JWST program.
- `https://mcdonaldobservatory.org/news/releases/20230719`

New Scientist **2016**

- Article featuring my research in the *New Scientist* Magazine
- Title: ‘‘Hyperactive galaxy could run out of gas in just 8 million years”

PNAS **2022**

- Article featuring my research in the *New Scientist* Magazine
- Title: ‘‘Nearby primitive galaxies offer a window into the early universe’’
- `https://www.pnas.org/doi/10.1073/pnas.2204371119`

ACADEMIC SERVICE

Undergraduate Studies Executive Committee **2021-present**
- Served as the Undergraduate Research Coordinator
- Served on the Executive Committee to discuss the Undergraduate curriculum.

University of Texas Future Career Fellow **2025-present**

Colloquium Committee **2024-2025**

Faculty Search Committee **2024**

Galaxies and Cosmology Group lead **2023-present**

Community Engagement Committee – Chair **2023-2024**

Cycle 4 Panel Vice-Chair for JWST **2025**

Graduate Course Review **2024**

Faculty Liaison to the Astronomy Students Association (ASA) **2022**

Faculty Liaison to TAURS **2023**
1. Help plan annual research symposia for undergraduate research at a consortium of Texas Universities to advertise undergraduate research.

Cycle 2 External Panelist for JWST **2023**

Cycle 30 Panelist for HST **2022**

Hobby-Eberly Users Committee **2022-present**

Co-Director of the TAURUS Program **2021-2022**

Galaxy and Cosmology Seminar Organizer **2021-2022**

Provost Scholars Committee **2021**

Graduate Admission Committee **2021**

Refereed Papers **2016-present**
- I have refereed 18 manuscripts for Science (1 time), the Astrophysical Journal, Monthly Notices of the Royal Astronomical Society, Galaxies Review, and Astronomy & Astrophysics.

Cycle 28 External Reviewer for HST **2020**

External Reviewer for NASA FINESST grants **2020**

Decadal Astro 2020 White Papers **2019**
- I participated in five Decadal Astronomy 2020 Whitepapers led by Bethan James, Molly Peeples, Jane Rigby, Gwen Rudie, and Jason Tumlinson.

Coordinator of IMPS and Cosmo Club Seminars UCSC **2018-2020**

Science Organizing Committee **2019**

- I was on the Science Organizing Committee for the Special Session SS5 ''Extragalactic UV Astronomy: Challenges and Future Prospects" at the European Week of Astronomy (EWASS) in Lyon, France.

PUBLICATION STATISTICS

First and Co-Author Citations (07/26/26): 9,701 **H-index**: 54

Citations per academic year as a faculty member (Oct. 1 – Sept. 30):

1. 2025-2026 (as of 07/26): 3,079
2. 2024-2025: 2,654
3. 2023-2024: 1,541
4. 2022-2023: 1,049

FIRST AUTHOR PUBLICATIONS

1. **Chisholm, J.**, Berg, D. A., Boylan-Kolchin, M., et al. *Little Red Dots as Globular Clusters in Formation*, 2026, ApJ, 1004L, 4C
2. **Chisholm, J.**, Berg, D.A, Endsley, R., et al. *''[Ne v] emission from a faint epoch of reionization-era galaxy: evidence for a narrow-line intermediate mass black hole''*, 2024, MNRAS, 534, 2633 (49 citations)
3. **Chisholm, J.**, Saldana-Lopez, A., Flury, S., et al. *''The Far-Ultraviolet Continuum Slope as a Lyman Continuum Escape Estimator at High-redshift''*, 2022, MNRAS, 517, 5104C (158 citations)
4. **Chisholm, J.**, Prochaska, J. X.; Schaerer, D.; Gazagnes, S.; Henry, A., *''Optically thin spatially resolved Mg II emission maps the escape of ionizing photons''*, 2020, MNRAS, 498, 2554C (90 citations)
5. **Chisholm, J.**, Rigby, J. R., Bayliss, M., Berg, D. A., Dahle, H., Gladders, M., Sharon, K., *''Constraining the metallicities, ages, star formation histories, and ionizing continua of extragalactic massive star populations''*, 2019, Apj, 882, 2 (142 citations)
6. **Chisholm, J.**, Tremonti, C., Leitherer, C., *''Metal-enriched galactic outflows shape the mass-metallicity relationship''*, 2018, MNRAS, 481, 1690C (122 citations)
7. **Chisholm, J.**, Gazagnes S., Schaerer D., Verhamme A., Rigby J., Bayliss M., *''Accurately predicting the escape fraction of ionizing photons using restframe ultraviolet absorption lines''*, 2018, A&A, 616A, 30C (125 citations)
8. **Chisholm, J.**, Bordoloi, R., Rigby, J. R., Bayliss, M., *"Feeding the fire: tracing the mass-loading of 10^7 K galactic outflows with O VI absorption"*, 2018, MNRAS, 474, 1688C (36)
9. **Chisholm, J.**, I. Orlitová, D. Schaerer, A. Verhamme, G. Worseck, Y. I. Izotov, T. X. Thuan, and N. G. Guseva, *"Do galaxies that leak ionizing photons have extreme outflows?"*, 2017, A&A, 605A, 67C (74 citations)
10. **Chisholm, J.**, Tremonti, Christy A., Leitherer, Claus, Chen, Yanmei, *"The mass and momentum outflow rates of photoionized galactic outflow"*, 2017, MNRAS, 469, 4831C (157 citations)
11. **Chisholm, J.**, Tremonti, C., Leitherer, C., Chen, Y., *"A Robust Measurement of the Star Formation Driven Mass Outflow Rate of NGC 6090"*, 2016, MNRAS, 463, 541C (59 citations)
12. **Chisholm, J.**, Matsushita, S., *"The Molecular Baryon Cycle of M 82"*, 2016, ApJ, 830, 72C (18 citations)
13. **Chisholm, J.**, Tremonti, C., Leitherer, C., Chen, Y., Wofford, A., *"Shinning a Light on Galactic Outflows: Photo-ionized Outflows"*, 2016, MNRAS, 457, 3133 (81 citations)

14. **Chisholm, J.**, Tremonti, C., Leitherer, C., Chen, Y., Wofford, A., Lundgren, B., (2015) *"Scaling Relations Between Warm Galactic Outflows and Their Host Galaxies"*, 2015, ApJ, 811, 149C (151 citations)

CO-AUTHOR PUBLICATIONS

Graduate students and postdocs that I mentored or co-mentored (e.g. thesis committees) are highlighted with a †.

1. Jecmen, Michelle C.†; **Chisholm, John** et al. *A GLIMPSE into the UV Continuum Slopes of the Faintest Galaxies in the Epoch of Reionization.* 2026, ApJ, 1001, 234J
2. Yanagisawa, Hiroto; Ouchi, Masami; **Chisholm, John** et al. *VENUS: Two Faint Little Red Dots Separated by* ~ 70 *pc Hidden in a Single Lensed Galaxy at* $z \sim 7$. 2026, arXiv e-prints, arXiv:2601.06015.
3. Korber, Damien; Schaerer, Daniel; **Chisholm, John** et al. *GLIMPSE-D: Metallicity Decline in Faint Galaxies: Implications for [O III]+Hβ Luminosity Function and Reionisation Budget.* 2026, arXiv e-prints, arXiv:2601.19989.
4. Coulter, David A.; Larison, Conor; **Chisholm, John** et al. *A spectroscopically confirmed, strongly lensed, metal-poor Type II supernova at* $z = 5.13$. 2026, arXiv e-prints, arXiv:2601.04156.
5. Claeyssens, Adélaïde; Adamo, Angela; **Chisholm, John** et al. *A first GLIMPSE into star clusters populations across cosmic time.* 2026, arXiv e-prints, arXiv:2601.16281.
6. Fujimoto, Seiji; Asada, Yoshihisa; **Chisholm, John** et al. *GLIMPSE-D: An Exotic Balmer-Jump Object at z=6.20? Revisiting Photometric Selection and the Cosmic Abundance of Pop III Galaxies.* 2025, arXiv e-prints, arXiv:2512.11790.
7. Hsiao, Tiger Yu-Yang; Topping, Michael W.; **Chisholm, John** et al. *First Direct Carbon Abundance Measured at z ¿ 10 in the Lensed Galaxy MACS0647-JD.* 2025, ApJ, 993, 70.
8. Kokorev, Vasily†; **Chisholm, John** et al. *The Deepest GLIMPSE of a Dense Gas Cocoon Enshrouding a Little Red Dot.* 2025, arXiv e-prints, arXiv:2511.07515.
9. Hamel-Bravo, M. J.; Fisher, D. B.; **Chisholm, J.** et al. *Declining metallicity and extended He II in the outflow of an Epoch of Reionisation analogue galaxy.* 2025, A&A, 704, L4.
10. Berg, Danielle A.; Naidu, Rohan P.; **Chisholm, John** et al. *A Fleeting GLIMPSE of N/O Enrichment at Cosmic Dawn: Evidence for Wolf-Rayet N Stars in a* $z = 6.1$ *Galaxy.* 2025, arXiv e-prints, arXiv:2511.13591.
11. de Graaff, Anna; Hviding, Raphael E.; **Chisholm, John** et al. *Little Red Dots host Black Hole Stars: A unified family of gas-reddened AGN revealed by JWST/NIRSpec spectroscopy.* 2025, arXiv e-prints, arXiv:2511.21820.
12. Atek, Hakim; **Chisholm, John** et al. *JWST's GLIMPSE: an overview of the deepest probe of early galaxy formation and cosmic reionization.* 2025, arXiv e-prints, arXiv:2511.07542.
13. Roy, Namrata; Heckman, Timothy; **Chisholm, John** et al. *Lyman Continuum Leakage from Massive Leaky Starbursts: A Different Class of Emitters?* 2025, ApJ, 992, 91.
14. Korber, Damien; Chemerynska, Iryna; **Chisholm, John** et al. *A GLIMPSE into the very faint-end of the Hβ+[O III]λλ4960,5008 luminosity function at z=7–9 behind Abell S1063.* 2025, arXiv e-prints, arXiv:2510.04771.
15. Hamel-Bravo, Magdalena J.; Fisher, Deanne B.; **Chisholm, John** et al. *Electron temperature relations in low metallicity, diffuse, and extraplanar gas of starburst galaxies.* 2025, MNRAS, 543, 1322–1338.

16. Fujimoto, Seiji; Naidu, Rohan P.; **Chisholm, John** et al. *GLIMPSE: An Ultrafaint $\simeq 10^5$ $M_\odot$ Pop III Galaxy Candidate and First Constraints on the Pop III UV Luminosity Function at $z \simeq 6$–7.* 2025, ApJ, 989, 46.
17. Nakane, Minami; Kokorev, Vasily; **Chisholm, John** et al. *VENUS: A Strongly Lensed Clumpy Galaxy at $z \sim 11$–12 behind the Galaxy Cluster MACS J0257.1-2325.* 2025, arXiv e-prints, arXiv:2511.14483.
18. Li, Zhihui; Gronke, Max; **Chisholm, John** et al. *Synergistic Radiative Transfer Modeling of Mg II and Lyα Emission in Multiphase, Clumpy Galactic Environments: Application to Low-redshift Lyman Continuum Leakers.* 2025, ApJ, 991, 49.
19. Parker, Kaelee S.; Berg, Danielle A.; **Chisholm, John** et al. *CLASSY. XIII. Cutting through the Clouds—Comparing Indirect Tracers of Ionizing Photon Escape.* 2026, ApJ, 997, 98.
20. Korber, Damien; Marques-Chaves, Rui; **Chisholm, John** et al. *GLIMPSED: Direct evidence for a fast AGN-driven outflow from a z=6.64 Little Red Dot host galaxy.* 2026, arXiv e-prints, arXiv:2604.08687.
21. Liu, Zhaoran; Naidu, Rohan P.; **Chisholm, John** et al. *How I Wonder What You Are – JWST's Little Red Dots do not TWINKLE.* 2026, arXiv e-prints, arXiv:2604.13000.
22. Schaerer, D.; Izotov, Y. I.; **Chisholm, J.** et al. *Nitrogen abundances in star-forming galaxies 2.2 Gyr after the Big Bang are not elevated.* 2026, A&A, 708, A242.
23. Sun, Wendy Q.; Naidu, Rohan P.; Matthee, Jorryt; de Graaff, Anna; **Chisholm, John** et al. *Little Red Dot – Host Galaxy = Black Hole Star: A Gas-Enshrouded Heart at the Center of Every Little Red Dot.* 2026, arXiv e-prints, arXiv:2601.20929.
24. Asada, Yoshihisa; Fujimoto, Seiji; **Chisholm, John**; Naidu, Rohan P.; Atek, Hakim; Brammer, Gabriel; Furtak, Lukas J.; Kokorev, Vasily; Pan, Richard; Basu, Arghyadeep; Bromm, Volker; Dessauges-Zavadsky, Miroslava; Hsiao, Tiger Yu-Yang; Jecmen, Michelle; Korber, Damien; Liu, Boyuan; McKinney, Jed; McQuinn, Kristen B. W.; Schaerer, Daniel, *GLIMPSE-DDT spectroscopic properties of faint-end galaxies at $z \sim 6$: Towards first metal enrichment, dust production, and ionizing photon production*, 2026, arXiv e-prints, arXiv:2601.20045.
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TALKS AND PRESENTATIONS

1. *Little Red Dots as Globular Clusters in Formation* **invited colloquium** at the University of Maryland in College Park, Maryland on April 8, 2026.
2. *A GLIMPSE of the early universe* **invited colloquium** at the Northwestern Physics and Astronomy Department in Evanston Illinois on October 10, 2025.
3. *Feedback regulated star formation in the early universe* **invited talk** at Feedback and Friends in Ascona Switzerland on August 12, 2025
4. *Cosmic Puzzles from the First Stars* **invited colloquium** at the Aspen Center for Astrophysics in Aspen Colorado, on July 10, 2025
5. *JWST's view on cosmic reionzation* **invited talk** at Garth Fest in Baltimore Maryland, June 25 2025.
6. *JWST's GLIMPSE of low-mass galaxies in the early universe* **invited talk** at Galactic Frontiers II in Hanover New Hampshire, June 23, 2025
7. *JWST's GLIMPSE of the star formation histories of galaxies in the epoch of reionization*, **invited talk** at Cosmic Miracles in Geneva Switzerland on June 3, 2025.
8. *Stellar population synthesis challenges in the era of JWST* **Invited Talk** at High-Redshift Workshop at the University of Chicago on March 10, 2025.
9. *JWST's GLIMPSE*, contributed talk at the IAP Symposium in Paris France, December 4, 2024
10. *JWST's GLIMPSE of Cosmic Reionization* **Invited Colloquium** at the Lyon Observatory in Lyon, France, November 29, 2024
11. *A GLIMPSE on cosmic reionization from local and distant observation*, contributed talk at ''Beyond the Edge of the Universe'', in Sintra Portugal, October 22, 2024
12. *''Reionization as a probe of the properties of high-redshift dwarf galaxies''*, Contributed talk at ''Small Galaxies, Cosmic Questions II'', Durham, UK, July 18, 2024
13. *''Reionization as a probe of the properties of high-redshift dwarf galaxies''*, Contributed talk at ''Small Galaxies, Cosmic Questions II'', Durham, UK, July 18, 2024
14. *''The ionization structure of galaxies at redshifts greater than 5''*, **Invited talk** at ''Chemical Abundances in Gaseous Nebulae IV'', Sao Jose dos Campos, Brazil, May 9, 2024
15. *''The extended radial outflow density profile of M82''*, **Invited talk** at ''Wolfe Symposium'', La Jolla, CA, March 28, 2024
16. The *''Faint AGN at high redshift as probed by [Ne V] Emission''*, **Invited talk** at ''The chronology of the very early Universe according to JWST: the first billion years'' in Bern Switzerland, March 11, 2024
17. *''A first glimpse at the astrophysics sculpting galaxies within the first billion years''*, **Invited colloquium** at Tufts University, Boston, Massachusetts, November 3, 2023
18. *''The energetics and mass outflow rates of photoionized outflows what can we constrain?''*, **Invited talk** at ''Outflows and the Baryon Cycle 2023', Healesville, Australia, July 20, 2023
19. *''Observing the Baryon Cycle with the HabWorlds Observatory''*, **Invited talk** at ''HabWorlds and Beyond'', Baltimore, USA, July 11, 2023 (unable to attend due to a family emergency) .
20. *''The FUV as a LyC escape tracer at high redshift''*, **Invited talk** at ''UV Galaxies 2023'', Reykjavik, Iceland, July 7, 2023.

21. *''The sources of reionization: new insights from nearby and far away reionization''*, Contributed talk at ''First Light in the Universe'', Cambridge, USA, June 12, 2023.
22. *''The sources of reionization: new insights from nearby and far away reionization''*, **Invited Colloquium** at University of Pittsburgh, Pittsburgh, USA, April 28, 2023.
23. *''The ionizing luminosities of galaxies within the epoch of reionization''*, Contributed talk at ''A new era in extragalactic astronomy: early results from the James Webb Space Telescope'', Cambridge, England, March 20, 2023.
24. *''The sources of reionization: new insights from nearby and far away''* **Invited colloquium** at the Australian National University, Canberra, New South Wales, Australia, December 8, 2022.
25. *''What Lurks Below the Lyman Limit? Unearthing the Unseen Ionizing Continua of Extragalactic Massive Star Populations''* Contributed talk at the International Astronomical Union Focus Meeting, August 3, 2022.
26. *'' Setting the Table for JWST: Local clues to the drivers of reionization ''* **Invited Seminar** at the Institut d'Astrophysique de Paris (IAP) in Paris France, May 12, 2022.
27. *"Massive star models and cosmic reionization: Missing stellar astrophysics and the last phase change of the universe"*. **Invited Focus Talk** at Bridging Stellar Evolution and Feedback Together at the Lorentz Center in Leiden the Netherlands (remote), March, 15, 2021.
28. *"A Glimpse Below the Lyman Limit: Local laboratories for the escape of ionizing photons"*. **Invited Cosmology Colloquium** at the University of California Davis, Davis, California, February, 18, 2021.
29. **Expert Panelist** at the Kavli Institute for Theoretical Physics conference presentation of theoretical challenges in galactic outflows February 9, 2021.
30. *"A Glimpse Below the Lyman Limit: Local laboratories for the escape of ionizing photons"*. **Invited Colloquium** at the University of Florida, Gainsville, Florida, November, 5, 2020.
31. *"A Glimpse Below the Lyman Limit: New observational advances on the escape of ionizing photons from local galaxies"*. **Invited Colloquium** at the University of California-San Diego, San Diego, California, October, 21, 2020.
32. *"A Glimpse Below the Lyman Limit: New observational advances on the escape of ionizing photons from local galaxies"*. **Invited Seminar** at Kavli Institute for the Physics and Mathematics of the Universe (IMPU), Tokyo, Japan, October, 15, 2020.
33. *"Peaking below the Lyman Break: Observational constraints of the properties and ionizing photon production of massive star populations"*. **Invited Colloquium** at Swinburne University, Melbourne, Australia, May, 14, 2020.
34. *"How massive stars shape galactic and cosmic evolution"*. **Invited Colloquium** at North Carolina State University, March, 2, 2020.
35. *"Intrinsic production of ionizing photons"*. **Invited talk** at Revolutionary Spectroscopy of Today as a Springboard to Webb in Leiden, the Netherlands, October, 31, 2019.
36. *"An Initial Glimpse of the Properties of the First Galaxies"*. Talk at the Hubble Symposium in Washington D.C., October, 21, 2019.
37. *"Metal-Enriched Galactic Outflows and their impact on the CGM"*. **Invited talk** at The CGM BERLIN 2019 Conference in Berlin, Germany, October, 5, 2019.

38. *"Metal-enriched galactic outflows shape the Mass-Metallicity Relation"*. Contributed talk at The Cosmic Baryon Cycle in Carlsbad, CA, September, 20, 2019.
39. *"Metal-enriched galactic outflows shape the Mass-Metallicity Relation"*. Contributed talk at Feedback and its Role in Galaxy Formation in Spetses, Greece, June 26, 2019.
40. *"What lurks below the Lyman Limit? Unearthing the unseen ionizing continua of extragalactic massive star populations"*. **Invited colloquium** at the Carnegie Observatories, May 24, 2019.
41. *"What lurks below the Lyman Limit? Unearthing the unseen ionizing continua of extragalactic massive star populations"*. **Invited colloquium** at the University of California–Santa Barbara, May 2, 2019.
42. *"How Ionizing Photons Escape Galaxies to Reionize the Universe"*. **Invited talk** at the University of California–Santa Cruz, November 9, 2018.
43. *"How Ionizing Photons Escape Galaxies to Reionize the Universe"*. **Invited colloquium** at the University of Wisconsin-Madison, October 25, 2018.
44. *"How Ionizing Photons Escape Galaxies to Reionize the Universe"*. **Invited seminar** at the University of Texas-Austin, October 11, 2018.
45. *"The escape mechanism and escape fractions of ionizing photons from star-forming galaxies"*. Contributed talk at "Escape of Lyman radiation from galactic labyrinths" in Kolymbari, Greece, September 14, 2018.
46. *"The observed mass and metal outflow rates shape the mass-metallicity relation"*. Contributed poster at "The role of feedback in galaxy formation: from small-scale winds to large-scale outflows" in Potsdam, Germany, September 3, 2018.
47. *"Accurately predicting the escape fraction of ionizing photons using restframe ultraviolet absorption lines"*. Contributed talk at "Rise and Shine" in Strasbourg, France, June 20, 2018.
48. *"Illuminating the sources of cosmic reionization with local analogs"*. **Invited colloquium** at the Ohio State University in Columbus, Ohio, USA, on January 25, 2018.
49. *"Galactic outflows in the JWST era"*. **Invited talk** at "Characterizing Galaxies with Spectroscopy with a view for JWST" at the Lorentz Center in Leiden, The Netherlands, on October 25, 2017.
50. *"The Mass and Metal Outflow Rates of Star-formation Driven Galactic Outflows"*. Contributed talk at the "European Week of Astronomy and Space Science'' in Prague Czech Republic, on June 26, 2017.
51. *"Removing Mass and Metals from Galaxies with Galactic Outflows"*. **Invited seminar** at University of Geneva/EPFL on June 20, 2017.
52. *"The Metal Outflow Rates of Star Formation Powered Galactic Outflows"*. Contributed talk at the Space Telescope Science Institute Spring Symposium "The lifecycle of metals throughout the universe" in Baltimore Maryland, on April 26, 2017.
53. *"Do Galactic Outflows Enrich the Circum-Galactic Medium?"*. **Invited seminar** at the University of California, Santa Cruz on December 13, 2016.
54. *"The Physical Conditions of Galactic Outflows"*. **Invited seminar** at the Centre de Recherche Astrophysique de Lyon in Lyon France, on November 4, 2016.
55. *"The Physical Conditions of Star Formation Drive Galactic Outflows"*. Contributed talk at "Crossing the Rubicon" in Santarcangelo di Romagna, on September 6, 2016.

56. *"Shining a light on star formation driven outflows: the physical conditions within galactic outflows"*. AAS talk in Kissimmee Florida, on January 6, 2016.
57. *"Shining a light on star formation driven outflows: the physical conditions within galactic outflows"* at the Northwestern University Theory Group meeting on November 6th 2015.
58. *"Shining a light on star formation driven outflows: the physical conditions within galactic outflows"* at the University of Maryland Theory Lunch talk on October 19th 2015.
59. *"Shining a light on star formation driven outflows: the physical conditions within galactic outflows"* at the Space Telescope Science Institute Galaxies Journal Club on October 16th 2015.
60. *"Shining a light on star formation driven outflows: the physical conditions within galactic outflows"* at the Harvard Center for Astrophysics Large Scale Seminar on October 13th 2015.
61. *"Galactic Outflow Scaling Relations and Their Impact on Galactic Evolution"*. Presented at "Drifting through the Cosmic Web: the Evolution of Galaxies within the Large Scale Structure" in Aix-en-Provence, France, on July 8^{th} 2015.
62. *"Studying Stellar Feedback With Galactic Outflow Scaling Relations"*. Presented at "Star Formation Across Space and Time" in Noordwijk, the Netherlands, on November 12^{th} 2014.
63. *"A Powerful [Ne V] Outflow from a Post-Starburst Galaxy"*, poster presented at "Gas, Stars and Black Holes in the Galaxy Ecosystem", Leiden, the Netherlands, July 24th, 2012.
64. *"A Powerful [Ne V] Outflow from a Post-Starburst Galaxy, and Tracers of Warm-Hot Outflows"*, talk presented at "Galactic Winds of Change" in Sesto, Italy, July 20th, 2012.
65. *"Peculiarly strong [Ne V] emission from a Hot phase of a Post-Starburst Wind."*, Poster presented at "The Baryon Cycle" in Irvine, California, June 15th, 2012.
66. *"Observing Star Formation Quenching In Action: A Powerful [Ne V] Outflow in a Post-Starburst Radio Galaxy "*. Poster presented at the American Astronomical Society meeting in Austin, Texas, January 2012.
67. *"Detection of Galactic Winds in Stacked BOSS Spectra"*. Presented at the SDSS collaboration meeting in Cloudcroft New Mexico, on March 25^{th} 2011.