

Jonathan Cohn

Mailing Address

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College Station, TX 77843-4242

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The Mitchell Institute for
Fundamental Physics and
Astronomy — (MIST) 313
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EDUCATION

Ph.D., Astronomy

2022 (expected)

Texas A&M University
Department of Physics and Astronomy
4242 TAMU
College Station, TX 77843-4242
Advisor: Dr. Jonelle Walsh

M.S., Astronomy

May 2019

Texas A&M University
Department of Physics and Astronomy
4242 TAMU
College Station, TX 77843-4242
Advisor: Dr. Kim-Vy Tran

B.S., Physics, *Magna Cum Laude*

May 2016

The University of Texas at Dallas
800 W Campbell Rd
Richardson, TX 75080
Advisors: Dr. Michael Kesden, Dr. Lindsay King

EXPERIENCE

Research Assistant

Summer 2017, Summer 2018, Spring 2019 – present

Department of Physics and Astronomy, Texas A&M University

Observations for Large Program

28 Jan – 2 Feb 2020

2.7m telescope, VIRUS-W, McDonald Observatory, Fort Davis, Texas

ALMA data reduction workshop

13 – 15 Mar 2019

National Radio Astronomy Observatory, Charlottesville, VA

Observations for MASSIVE survey

9 – 12 Apr 2018

2.7m telescope, VIRUS-P, McDonald Observatory, Fort Davis, Texas

Other observations

13 Apr 2018

2.7m telescope, VIRUS-W, McDonald Observatory, Fort Davis, Texas

Teaching Assistant — Instructor of Record

Summer 2017 – Spring 2018

Astronomy 102: Observational Astronomy
Department of Physics and Astronomy, Texas A&M University

Teaching Assistant

Fall 2016 – Spring 2017, Fall 2018

Astronomy 101: Basic Astronomy

Department of Physics and Astronomy, Texas A&M University

Undergraduate Teaching Assistant

Fall 2015 – Spring 2016

Weather & Climate

Department of Physics, The University of Texas at Dallas

Undergraduate Research Assistant

Summer 2015

Department of Physics, The University of Texas at Dallas

Peer-led Team Learning Super Leader

Fall 2015 – Spring 2016

PLTL Leader and Coordinator, General Chemistry I & II

Student Success Center, The University of Texas at Dallas

Peer-led Team Learning Leader

Fall 2013 – Spring 2016

PLTL Leader, General Chemistry I & II

Student Success Center, The University of Texas at Dallas

AWARDS

Undergraduate Research Award

2014 – 2015

The University of Texas at Dallas

STEM Columbia Crew Memorial Scholarship

2014 – 2015

Texas Space Grant Consortium

Academic Excellence Scholarship, Honors

2012 – 2016

The University of Texas at Dallas

PUBLICATIONS

- *A giant galaxy in the young Universe with a massive ring*
T. Yuan, A. Elagali, I Labbé, G. G. Kacprzak, C. del P. Lagos, L. Y. Alcorn, **J. H. Cohn**, and 8 additional authors
Nature Astronomy (2020)
- *MOSEL Survey: Tracking the Growth of Massive Galaxies at $2 < z < 4$ Using Kinematics and the IllustrisTNG Simulation*
A. Gupta, K-v. H. Tran, **J. H. Cohn**, and 13 additional authors
The Astrophysical Journal (2020), 893, 23
- *A Tale of Two Clusters: An Analysis of Gas-phase Metallicity and Nebular Gas Conditions in Proto-cluster Galaxies at $z \sim 2$*
L. Y. Alcorn, A. Gupta, K-V. H. Tran, G. G. Kacprzak, T. Yuan, **J. H. Cohn**, and 9 additional authors
The Astrophysical Journal (2019), 883, 153
- *ZFOURGE: Extreme 5007 \AA emission may be a common early-lifetime phase for star-forming galaxies at $z > 2.5$*
J. H. Cohn, J. Leja, K-v. H. Tran, and 12 additional authors
The Astrophysical Journal (2018), 869, 141
- *ZFOURGE: Using Composite Spectral Energy Distributions to Characterize Galaxy Populations at $1 < z < 4$*

B. Forrest, K.-v.H. Tran, A. Broussard, **J. H. Cohn**, and 11 additional authors
The Astrophysical Journal (2018), 863, 131

- *Detecting binarity of GW150914-like lenses in gravitational microlensing events*
D.H. Eilbott, A.H. Riley, **J.H. Cohn**, M.H. Kesden, L.J. King
Monthly Notices of the Royal Astronomical Society Letters (2017), 467 (1)

CONFERENCES AND PRESENTATIONS

- IAU Symposium 359: GALFEED 2 – 6 Mar 2020
(Galaxy Evolution and Feedback Across Different Environments)
Poster and flash talk: *Gas-dynamical mass of the supermassive black hole in UGC 2698*
Bento Gonçalves, Rio Grande do Sul, Brazil
- 2019 Frank N. Bash Symposium 21 – 23 Oct 2019
Poster and flash talk: *Gas-dynamical mass of the supermassive black hole in UGC 2698*
The University of Texas at Austin, Austin, TX
- 2019 Texas A&M Astronomy Symposium 23 Aug 2019
Talk: *Estimating the masses of supermassive black holes in compact elliptical galaxies*
Texas A&M University, College Station, TX
- Understanding emission-line galaxies for the next generation of cosmological surveys 5 Sept 2018
Talk: *ZFOURGE: Extreme 5007 Å emission may be a common early-lifetime phase for star-forming galaxies at $z > 2.5$*
Centro de Estudios de Física del Cosmos de Aragón, Teruel, Spain
- 2018 Texas A&M Astronomy Symposium 24 Aug 2018
Talk: *Extreme emission may be a common early-lifetime phase for star-forming galaxies at $z > 2.5$*
Texas A&M University, College Station, TX
- 231st Meeting of the American Astronomical Society 9 Jan 2018
Talk: *Star Formation Histories of Extreme Emission Line Galaxies at $z \sim 3.5$ in the ZFOURGE Survey*
Washington, DC
- Plumbing Star Formation Rates in the Age of JWST 1 Nov 2017
Talk: *Star Formation Histories of Extreme Emission Line Galaxies at $z \sim 3.5$ in the ZFOURGE Survey*
Texas A&M University, College Station, TX
- 2017 Frank N. Bash Symposium 23 – 25 Oct 2017
Poster and flash talk: *Star Formation Histories of Extreme Emission Line Galaxies at $z \sim 3.5$ in the ZFOURGE Survey*
The University of Texas at Austin, Austin, TX
- Fall 2017 Joint Meeting of the Texas Section of the APS 20 Oct 2017
Talk: *Star Formation Histories of Extreme Emission Line Galaxies at $z \sim 3.5$ in the ZFOURGE Survey*
The University of Texas at Dallas, Richardson, TX
- 2017 Texas A&M Astronomy Symposium 25 Aug 2017
Talk: *Properties of Extreme Emission Line Galaxies in ZFOURGE from Prospector- α*
Texas A&M University, College Station, TX
- 2016 Texas A&M Astronomy Symposium 26 Aug 2016
Talk: *Detectability of GW150914-like events by gravitational microlensing*
Texas A&M University, College Station, TX
- Fall 2015 Joint Meeting of the Texas Section of the APS 30 Oct 2015
Talk: *Gravitational microlensing by binary black holes*
Baylor University, Waco, TX

- The University of Texas at Dallas Undergraduate Research Poster Competition 7 Apr 2015
Poster: *Gravitational microlensing by binary black holes*
The University of Texas at Dallas, Richardson, TX

MEMBERSHIPS

Sigma Pi Sigma Physics Honor Society

MENTORSHIP

Mentoring and Advising Graduates in an Inclusive Community Fall 2019 — present
Program founder, organizer, & primary mentor
Texas A&M University, Department of Physics & Astronomy

Discover, Explore, and Enjoy Physics and Engineering (DEEP) Fall 2017 — present
Astronomy Team Mentor
Texas A&M University, Department of Physics & Astronomy

OUTREACH AND VOLUNTEER WORK

Conferences for Undergraduate Women in Physics at TAMU 17 – 19 Jan 2020
Panel moderator, poster session judge, volunteer
Texas A&M University, Department of Physics & Astronomy

Astronomy on Tap BCS, invited speaker 17 Jul. 2019
Talk: *Chasing the Event Horizon*
Bryan, TX

Letters to a Pre-Scientist Fall 2018 — present
Scientist pen-pal

Astronomy on Tap BCS, panelist 13 Dec. 2018, 11 Sep. 2019, 15 Jan. 2020
Panel: *Answering YOUR Burning Questions*
Bryan, TX

Astronomy on Tap BCS, invited speaker 11 Oct. 2018
Talk: *Here Be ~~Dragons~~ Aliens: The Unsolved Equation*
Bryan, TX

Astronomy on Tap BCS, chapter co-founder, host, & organizer Spring 2018 — present
Bryan, TX

Discover, Explore, and Enjoy Physics and Engineering (DEEP) Physics Shows Fall 2017 — present
Demonstration designer, builder, and presenter
Texas A&M University, Department of Physics & Astronomy

Texas A&M Physics & Engineering Festival Apr. 2017, Apr. 2018
Texas A&M University, Department of Physics & Astronomy

Public Star Parties Texas A&M University, Department of Physics & Astronomy	Spring 2017
Dallas Arboretum: Earth Day UT Dallas Society of Physics Students	Apr. 2015
Dallas Arboretum: The Joy of Science UT Dallas Society of Physics Students	Apr. 2014
UT Dallas Society of Physics Students, Secretary/Vice President The University of Texas at Dallas	Fall 2013 — Spring 2016
27th Texas Symposium on Relativistic Astrophysics The University of Texas at Dallas, Department of Physics	Dec. 2013
Alpha Phi Omega Math & Science Camp The University of Texas at Dallas, Department of Physics	Oct. 2013