

Aimee Schechter

aimee.schechter@colorado.edu

Ph.D. Candidate / CU Boulder

www.astronaimee.com

EDUCATION

PhD in Astrophysics , <i>University of Colorado Boulder</i>	Expected Dec 2025
Master of Astrophysics , <i>University of Colorado Boulder</i>	Dec 2021
Bachelor of Science, Astronomy, Honors , <i>The University of Texas at Austin</i>	May 2019
Bachelor of Science, Physics , <i>The University of Texas at Austin</i>	May 2019
<i>Study Abroad, University of Sussex</i>	Spring 2017

AWARDS

PI: Chandra Cycle 26 Archival Proposal	Fall 2024
<i>Recommended for funding by the Scientific Peer Review panel. No archival funding available for Cycle 26 awards.</i>	
CU APS Department Astrophysics Graduate Fellowship	Spring 2023
NSF Graduate Research Fellowship Program Honorable Mention	Spring 2021
UT College of Natural Sciences Dean's Honored Graduate	Spring 2019
UT College of Natural Sciences Distinction in Research	Spring 2019
UT College of Natural Sciences Distinction in Service & Leadership	Spring 2019
Department of Astronomy Karl G. Henize Memorial Scholarship	Spring 2019
Undergraduate AAS Chambliss Award Honorable Mention	Spring 2019
University of Texas Undergraduate Research Fellowship	Fall 2018
John W. Cox Scholarship for Advanced Studies in Astronomy	Summer 2018

PUBLICATIONS

Toward Complete Merger Identification at High Redshifts with Deep Learning, **Schechter, A.**, Nevin, R., Ćiprijanović, A., Shen, X., Comerford, J. & Stemo, A., in prep.

Enhanced Star Formation and Black Hole Accretion Rates in Galaxy Mergers in IllustrisTNG50, **Schechter, A.**, Genel, S., Terrazas, B., Comerford, J., Hartley, A., Somerville, R., Nevin, R., Simon, J., & Nelson, E., *The Astrophysical Journal*, submitted

Examining the Gas Outflow for a Typical Dusty Star-Forming Galaxy at $z=2$, **Schechter, A.** & Casey, C., Res. Notes AAS 2018 2 228

"Beads-on-a-string" Star Formation Tied to One of the Most Powerful Active Galactic Nucleus Outbursts Observed in a Cool-core Galaxy Cluster, Omoruyi, O., Tremblay, G. R., Combes, F., Davis, T. A., Gladders, M. D., Vikhlinin, A., Nulsen, P., Kharb, P., Baum, S. A., O'Dea, C. P., Sharon, K., Terrazas, B. A., Nevin, R., **Schechter, A. L.**, Zuhone, J. A., McDonald, M., Dahle, H., Bayliss, M. B., Connor, T., Florian, M., Rigby, J. R., & Vaddi, S., *The Astrophysical Journal*, 2024, 963, 1.

The first quiescent galaxies in TNG300, Hartley, A. I., Nelson, E. J., Suess, K. A., Garcia, A. M., Park, M., Hernquist, L., Bezanson, R., Nevin, R., Pillepich, **A. Schechter**, A. L., Terrazas, B. A., Torrey, P., Wellons, S., Whitaker, K. E., & Williams, C. C., *Monthly Notices of the Royal Astronomical Society*, 2023, 522, 3138.

A Catalog of 204 Offset and Dual Active Galactic Nuclei (AGNs): Increased AGN Activation in Major Mergers and Separations under 4 kpc, Stemo, A., Comerford, J. M., Barrows, R. S., Stern, D., Assef, R. J., Griffith, R. L., & **Schechter, A.**, *The Astrophysical Journal*, 2021, 923, 36.

Aimee Schechter

aimee.schechter@colorado.edu

Ph.D. Candidate / CU Boulder

www.astronaimee.com

SELECTED TALKS AND POSTERS

- T: Identifying Galaxy Mergers and Their Role in Star Formation and AGN Activity Across Cosmic Time**
Dancing In The Dark, Sexten Center for Astrophysics June 2025
- T: The Uses and Limitations of CNNs for Galaxy Merger Identification**
Cosmic Horizons Conference, NSF-Simons Cosmic AI Institute May 2025
- T: CANDELS Merger Identification with IllustrisTNG50 Using a Convolutional Neural Network**
Data Driven Galaxy Evolution, KITP-CCA Jan 2023
- T: How to Identify Galaxy Mergers in CANDELS with IllustrisTNG50**
Galaxies and AGN Seminar, STScI Sept 2021
- T: Merging galaxies in HST and JWST: An interpretable suite of CNNs for identifying and understanding merger features**
Hernquist Group Oct 2021
- T: How to Identify Galaxy Mergers in CANDELS with IllustrisTNG50**
Clash of the Titans, Lorentz Center Workshop Mar 2021
- P: Examining the Gas Outflow for a Typical Dusty Star-Forming Galaxy at $z=2$**
Conference for Undergraduate Women in Physics Jan 2019
- P: Examining the Gas Outflow for a Typical Dusty Star-Forming Galaxy at $z=2$**
233rd Meeting of the American Astronomical Society Jan 2019
- T: Examining the Gas Outflow for a Typical Dusty Star-Forming Galaxy at $z=2$**
Texas Astronomy Undergraduate Research Symposium Oct 2018

RESEARCH EXPERIENCE

- CANDELS Merger Identification with IllustrisTNG50**
CU Boulder, with Prof. Julie Comerford and Dr. Rebecca Nevin Jan 2020 — Present
- Star Formation and Black Hole Accretion in Galaxy Mergers in TNG50**
CU Boulder | CCA, with Dr. Rachel Somerville, Dr. Shy Genel, and Prof. Bryan Terrazas Aug 2022 — Jun 2025
- Mapping Dust Emission in M101 to Improve Precision Cosmology**
UT Austin, with Prof. Caitlin Casey Oct 2018 — Dec 2019
- Examining the Gas Outflow for a Typical Dusty, Star-Forming Galaxy at $z=2$**
UT Austin, with Prof. Caitlin Casey Aug 2017 — Sep 2018
- Analyzing the Cooling Tracks of Extremely Low Mass White Dwarfs**
UT Austin, with Dr. Mike Montgomery Aug 2016 — Dec 2016
- Type II Supernovae Simulation**
UT Austin, with Dr. Mike Montgomery Mar 2016 — Jun 2016

TEACHING EXPERIENCE

- Lecture TA**, ASTR 2030 Black Holes Fall 2024
- Lecture TA**, ASTR 1200 Stars and Galaxies Spring 2020, Fall 2020
- Lab TA** ASTR 1010 Introductory Astronomy I Fall 2019

Aimee Schechter

aimee.schechter@colorado.edu

Ph.D. Candidate / CU Boulder

www.astronaimee.com

OUTREACH

Lead Facilitator and Treasurer

Jul 2020 — Jul 2022

Science Under the Dome, Fiske Planetarium, CU Boulder

- Fundraise and manage finances for the organization
- Run auditions for future speakers
- Provide feedback to speakers on visuals, content, and public speaking

President

May 2018 — May 2019

Undergraduate Women in Physics, UT Austin

- Organized speakers and activities for weekly meetings
- Worked with department to improve undergraduate curriculum and department culture
- Created support system for underrepresented people in the department

Outreach Coordinator

Aug 2017 — Sep 2018

Undergraduate Women in Physics, UT Austin

- Planned events and coordinated volunteers
- Set up demos and explained complex physics to the public

Program Ambassador/Member

Aug 2015 — May 2019

Women in Natural Sciences Program, UT Austin

- Selected based on academic achievement and commitment to the community
- Represent the WINS Program at College events
- Tutored fifth grade student in reading comprehension and success strategies
- Mentored an incoming WINS student (August 2018-May 2019)

CU ASTROPHYSICAL AND PLANETARY SCIENCES DEPARTMENT COMMITTEES

Lead Graduate Representative, Friday Lunch Seminar Organizing Committee

Fall 2021 — Spring 2024

Graduate Representative, Graduate Curriculum and Concerns Committee

Fall 2021 — Spring 2022

Graduate Representative, Undergraduate Curriculum and Concerns Committee

Fall 2019 — Spring 2021