Ava E. Polzin

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EDUCATION

Ph.D. in Astronomy & Astrophysics, The University of Chicago

exp. 2026

Advisors: Profs. Andrey Kravtsov and Hsiao-Wen Chen

Dec. 2022

M.S. and M.Phil. in Astronomy (en route), Yale University Transferred to UChicago post-candidacy

B.A. in Physics with honors (concentration in Astronomy), Northwestern University

Dec. 2018

Thesis: "Exploring the Eclipsing Binary Yield of the Large Synoptic Survey Telescope" with Prof. Aaron Geller Minor in Earth & Planetary Sciences (concentration in Geophysics)

Research Experience

The University of Chicago

Chicago, IL

Graduate Research Assistant, Structure Formation Group and Chen Group

2022-Present

- Theory/computation and observation; advisors: Profs. Andrey Kravtsov and Hsiao-Wen Chen
- Focusing on star formation and the baryon cycle in dwarf galaxies.

Yale University

New Haven, CT

Graduate Research Assistant, Newburgh and van Dokkum groups

2019 - 2022

- Departments of Astronomy and Physics, advisors: Profs. Laura Newburgh and Pieter van Dokkum
- Observational, extragalactic and cosmology research using data from the Canadian Hydrogen Intensity Mapping Experiment (CHIME) and the Dragonfly Telephoto Array.

Visiting Undergraduate Researcher, Newburgh Lab, Department of Physics

Summer 2018

- Experimental cosmology research, instrumentation; advisor: Prof. Laura Newburgh
- Examined the feasibility of using drones for calibration and beam-mapping of static Hydrogen Intensity and Real-time Analysis eXperiment (HIRAX) – and CHIME – dishes.

Northwestern University

Evanston, IL

Research Assistant, Margutti Group

January 2019-July 2019

- X-ray duration-luminosity phase space; advisor: Prof. Raffaella Margutti
- Worked on comprehensive review of soft X-ray transients and variables to define discovery space for upcoming missions and generate a resource to allow for initial, qualitative classification of transient signals.

Vera Rubin Observatory Intern

2017 - 2019

- Time-domain astronomy, simulations; advisor: Prof. Aaron Geller
- Created a Galactic simulation to determine a new minimum prediction for Rubin Observatory's eclisping binary yield over its ten-year run.

Undergraduate Research Assistant, Micro-X Lab

2016 - 2017

- High-energy astroparticle physics, instrumentation; advisors: Prof. Enectali Figueroa-Feliciano, Dr. David Goldfinger, and Dr. Antonia Hubbard
- Primarily worked on Transition Edge Sensors and simulated the helium consumption of the lab's dewars in advance of sounding rocket launch.

University of Southern California

Los Angeles, CA

Undergraduate Research Volunteer, Nealson Lab

Spring 2016

- Environmental microbiology, geological sciences; advisors: Prof. Ken Nealson, Dr. Casey Barr
- Intended as training for planned research in environmental microbiology scheduled to be carried out at the Jet Propulsion Lab, Pasadena, CA, Summer 2016. In addition to setting up electrochemical tests, general biology lab experience – making plates, mixing media, isolating samples for re-plating, organizing and cataloging chemical shelves, etc.

Instructional Experience

Teaching

- CCTL Graduate Fellow, Chicago Center for Teaching and Learning (CCTL)

 2023—Present

 Develop and deliver instruction and programming related to teaching and pedagogy at the University of Chicago.
- Lead Instructor, Yale Young Global Scholars

Summers 2020–2022

- Design and implement seminars about astrophysics and the history of astrophysics targeted at advanced high school students (e.g., "Introduction to Extragalactic Astrophysics" and "Astronomy Sans the White Dudes".)
- Invited to deliver sample seminar for new instructors, "Introduction to Extragalactic Astrophysics," at YYGS Spring Training (March 5, 2022). Included analysis of seminar design and presentation.
- Evaluations are linked: 2020, 2021, and 2022
- Certificate of College Teaching Preparation, Yale Poorvu Center for Teaching & Learning May 2022 Meets the requirements for CIRTL Associate, as well.
- Graduate Teaching Fellow, Yale University

2019 - 2021

- ASTR 110 (Planets & Stars) with Dr. Michael Faison, Fall 2019 (4.6/5.0)
- ASTR 170 (Introduction to Cosmology) with Prof. Priya Natarajan, Spring 2020 (N/A due to COVID-19)
- ASTR 110 (Planets & Stars) with Dr. Michael Faison, Fall 2020 (4.7/5.0)
- ASTR 255/PHYS 295 (Research Methods in Astrophysics) with Prof. Héctor Arce, Fall 2021 (4.1/5.0)
- Teaching Assistant, Yale Summer Program in Astrophysics

 Mentor students in their research projects, aid with assignments (both in a tutoring capacity and a grading one), and serve as telescope Time Allocation Committee (TAC). During Summer 2019, oversaw/ran nightly observing sessions at the Leitner Family Observatory and Planetarium.
- Grader, Northwestern University Department of Physics & Astronomy

 Graded assignments for Physics 330-2 (Classical Mechanics) with Prof. Nathaniel Stern, Winter 2019.

 Winter 2019
- Peer-Guided Study Group Facilitator, Northwestern University 2017–2019 Through Academic Support and Learning Advancement (Searle Center for Advancing Learning & Teaching, Weinberg College).
 - Led small group sessions supplemental to general physics courses. Worked with Prof. David Taylor's and Prof. Art Schmidt's classes for Fall 2017 and Prof. Deborah Brown's classes Winter 2018 to Spring 2019.
 - Selected to serve on student panel at annual ASLA New Faculty Workshop (September 21, 2018) and returning student leader panel at annual Peer Leader Training (September 26, 2018).
- N'Cat Tutor, Northwestern Athletics, Northwestern University 2017–2019

 Tutored student athletes in physics, astronomy, math, music, and earth science courses. Worked both one-on-one and with groups.
- Learning Assistant, Searle Center for Advancing Learning & Teaching, Northwestern University Spring 2018

 Attended all lectures and discussions to provide TA-like support to students during introductory physics class.

 Participated in Prof. Zosia Krusberg's Physics 135-3 pilot of the Learning Assistant program.

Research Mentorship

I have been the primary research mentor for a number of high school students conducting independent study projects spanning a range of topics in astrophysics. Each project was completed across ~ 10 weeks, and since, many of these high schoolers have gone on to undergraduate study in the physical sciences. A full list of students and their projects is available on my website. Some examples:

- Anagha Ramnath "Finding the constant of an accelerating universe: the Hubble constant" (JOURNYS)
- Jacqueline Huebner "A surface brightness profile of M31 from archival SDSS data" (JOURNYS, submitted)
- Jeshwanth Mohan "Multi-messenger observability of neutron star binary systems" (JOURNYS, submitted)
- Gabriel Kronson Transient progenitor recovery from light curve decay fitting (in prep.)

LEADERSHIP & SERVICE

• X-ray Transients Sub-Group Lead, HEX-P proposal team	2022–Present
• Community Engagement Working Group, UChicago Astrophysics	2022–Present
• Faculty Meeting Notetaker, UChicago Department of Astronomy and Astrophysics	2022–Present
• Graduate Student Liaison, Faculty Search Committee, UChicago Astrophysics	2023
• Yale Astronomy Data Science Journal Club Organizing Committee Member	2021 - 2022
• Outreach Subcommittee Chair, Yale Astronomy Climate and Diversity Committee	2020 – 2022
• IDEA Journal Club Organizing Committee Member "Inclusion, Diversity, and Equity in Astronomy" (IDEA) Journal Club, Yale Astronomy	2020-2022
• Advocacy Chair, Yale Women in Physics+	2019 – 2022
• CUWiP Local Organizing Committee Member 2019 American Physical Society Conference for Undergraduate Women in Physics hosted at Northwester through the Society of Women in Physics & Astronomy and the Department of Physics & Astronomy.	2018–2019 rn University
• Weinberg College of Arts & Sciences Student Advisory Board, Northwestern University Selected by department as Physics & Astronomy representative.	Fall 2018

OUTREACH & OTHER PERTINENT EXPERIENCE

• Skype-a-Scientist 2021–Present

• SIRIUS B (formerly the Lakota Cultural Exchange Program, LCEP)

Additional details at siriusb.org, thelakotaculturalexchangeprogram.org, and our Facebook page.

Founded the program in 2009 and have run programming through it consistently since then. Ongoing effort to bring empowerment through enrichment to girls on Pine Ridge Reservation in South Dakota. What began as a girls-helping-girls self-defense initiative has grown into permanent music programs on the reservation and a continuing STEM outreach effort at Northwestern University. As everything else, a bit derailed by the COVID-19 pandemic, but in talks to resume Chicago-based programming and (separately) exploring the possibility of extended, virtual opportunities for students on the reservation.

• Certificate in Science Communication, Northwestern University (CIERA)

June 2022

• Organizer, Astronomy on Tap New Haven 2019–2022

• Letters to a Pre-Scientist 2021–2022

• Peer Orientation Mentor, Yale Graduate School of Arts & Sciences

Fall 2020

Piloted through the GSAS and Graduate Student Development & Diversity. Welcomed and oriented a group of first

year graduate students (from various departments) to Yale and New Haven. Charged with building community despite

the pandemic and offering ongoing mentorship and support to ensure new student success in the graduate school.

• Volunteer, Yale Pathways to Science Telescope Workshop

July 2019

• Dearborn Observatory Telescope Operator

2017-2019

Northwestern University Department of Physics & Astronomy; supervisor: Prof. Michael Smutko. Ran telescope, hosted events, and answered questions pertaining to the field and observatory.

First and significant author

- 14. **A. Polzin**, A. Kravtsov, V. Semenov, and N. Y. Gnedin, "Modeling the fraction of molecular in low mass, low metallicity dwarf galaxies", *In preparation for submission to ApJ*, 2023.
- 13. A. Polzin, L. Newburgh, P. Natarajan, and H.-W. Chen, "CHIME as an Instrument for Studying Galaxy Evolution: Characterizing the origin of the HI flux in the CHIME beam with cosmological simulations", *In preparation for submission to MNRAS*, 2023.
- 12. T. B. Miller, I. Pasha, A. Polzin, S. Danieli, J. Greco, and P. G. van Dokkum, "SilkScreen: Recovering dwarf galaxy masses, distances, and metallicities from survey imaging using amortized neural posterior estimation and ArtPop", In preparation for submission to ApJ, 2023.
- A. Polzin, R. Margutti, D. L. Coppejans, K. Auchettl, K. L. Page, G. Vasilopoulos, J. S. Bright, P. Esposito, P. K. G. William, K. Mukai, and E. Berger, "The phase space of Galactic and extragalactic X-ray transients out to intermediate redshifts", Submitted to ApJ, 2022. (arXiv/ADS) Dataset and code access here.
- 10. A. M. Geller, A. Polzin, A. Bowen, and A. A. Miller, "Simulating eclipsing binary yields of the Rubin Observatory in the Galactic field and star clusters", ApJ, vol. 919, no. 2, p. 83, Sep. 2021. (arXiv/ADS)
- 9. A. Polzin, P. van Dokkum, S. Danieli, J. P. Greco, and A. J. Romanowsky, "A recently quenched isolated dwarf galaxy outside of the Local Group environment", ApJL, vol. 914, no. 1, p. L23, Jun. 2021. (arXiv/ADS)

 This work was picked up by astrobites (shared by AAS Nova) and the Yale Scientific Magazine.

Contributing author

- 8. M. Brightman, R. Margutti, A. Polzin, A. Jaodand, K. Mooney, K. Hotokezaka, D. Stern, J. Garcia, and K. Madsen, "The High Energy X-ray Probe (HEX-P): Sensitive broadband X-ray observations of transient phenomena in the 2030s", In preparation for submission to Front. Astron. Space Sci., 2023.
- 7. The CHIME Collaboration (incl. A. Polzin), "Detection of cosmological 21 cm emission with the Canadian Hydrogen Intensity Mapping Experiment", ApJ, vol. 947, no. 1, p. 16, Apr. 2023. (arXiv/ADS)

 This work was featured in Scientific American (highlighted by the Wright Lab news).
- 6. F. Förster, A. M. Muñoz Arancibia, I. Reyes, A. Gagliano, D. J. Britt, S. Cuellar-Carrillo, F. Figueroa-Tapia, A. Polzin, Y. Yousef, J. Arredondo, D. Rodríguez-Mancini, J. Correa-Orellana, A. Bayo, F. E. Bauer, M. Catelan, G. Cabrera-Vives, R. Dastidar, P. A. Estévez, G. Pignata, L. Hernandez-Garcia, P. Huijse, E. Reyes, P. Sánchez-Sáez, M. Ramirez, D. Grandón, J. Pineda-García, F. Chabour-Barra, and J. Silva-Farfán, "DELIGHT: Deep Learning Identification of Galaxy Hosts of Transients using multi-resolution images", AJ, vol. 164, no. 5, p. 195, Oct. 2022. (arXiv/ADS/GitHub/PyPI)

 This paper was picked up by El Mostrador and Nova Ciencia.
- 5. M. A. Keim, P. van Dokkum, S. Danieli, D. Lokhorst, J. Li, Z. Shen, R. Abraham, S. Chen, C. Gilhuly, Q. Liu, A. Merritt, T. B. Miller, I. Pasha, and A. Polzin, "Tidal Distortions in NGC 1052-DF2 and NGC 1052-DF4: Independent evidence for a lack of dark matter", ApJ, vol. 935, no. 2, p. 160, Aug. 2022. (arXiv/ADS)
- 4. The CHIME Collaboration (incl. A. Polzin), "An overview of CHIME, the Canadian Hydrogen Intensity Mapping Experiment", ApJS, vol. 261, no. 2, p. 29, Jul. 2022. (arXiv/ADS)
- 3. The CHIME Collaboration (incl. A. Polzin), "Using the Sun to measure the primary beam response of the Canadian Hydrogen Intensity Mapping Experiment", ApJ, vol. 932, no. 2, p. 100, Jun. 2022. (arXiv/ADS)
- 2. Q. Liu, R. Abraham, C. Gilhuly, P. van Dokkum, P. G. Martin, J. Li, J. P. Greco, D. Lokhorst, S. Chen, S. Danieli, M. A. Keim, A. Merritt, T. B. Miller, I. Pasha, A. Polzin, Z. Shen, and J. Zhang, "A method to characterize the wide-angle point spread function of astronomical images", ApJ, vol. 925, no. 2, p. 219, Feb. 2022. (arXiv/ADS)
- I. Pasha, D. Lokhorst, P. G. van Dokkum, S. Chen, R. Abraham, J. Greco, S. Danieli, T. Miller, E. Lippitt,
 A. Polzin, Z. Shen, M. A. Keim, Q. Liu, A. Merritt, and J. Zhang, "A nascent tidal dwarf galaxy forming within the northern HI streamer of M82", ApJL, vol. 923, no. 2, p. L21, Dec. 2021. (arXiv/ADS)
 This paper was highlighted by Yale News (shared by the Dunlap Institute, Phys.org, EurekAlert!, and ScienceDaily) and SyFy Wire's popular Bad Astronomy.

Presentations

- 8. "The Phase Space of X-ray Transients Out to z=1", University of Chicago Department of Astronomy & Astrophysics Astro Tuesday Chalk Talk; March 7, 2023.
- 7. "A recently quenched isolated dwarf galaxy outside of the Local Group environment", invited presentation at the OSU Astro Coffee (given virtually); May 20, 2021.
- 6. "The Phase Space of Galactic and Extragalactic X-ray Transients", MIT Kavli Institute Brown Bag Lunch Talk (given virtually); Oct. 26, 2020.
- 5. "Stellar STEM Weekends", Northwestern University Center for Native American & Indigenous Research Symposium; May 17, 2019.

 Video available on the LCEP webpage (under "STEM Outreach" tab).
- 4. A. Polzin, A. Geller, A. Miller, K. Breivik, "Exploring the Eclipsing Binary Yield of the Large Synoptic Survey Telescope". Poster presented at the 233rd American Astronomical Society Meeting; Jan. 9, 2019; Seattle, WA. (ADS)
- 3. A. Polzin, A. Geller, A. Miller, K. Breivik, "Exploring the Eclipsing Binary Yield of the Large Synoptic Survey Telescope". Poster presented at the Greater Chicago Undergraduate Women in Physics Workshop (The University of Chicago); Sept. 30, 2018; Chicago, IL. Received poster award.
- 2. "Examining drone calibrations for HIRAX", Wright Laboratory Undergraduate Research Symposium, Yale University, July 30, 2018
- 1. A. Polzin, A. Geller, A. Miller, K. Breivik, "Exploring an Improved Method for Determining LSST's Eclipsing Binary Yield". Poster presented at the Adler Planetarium and Northwestern Department of Physics & Astronomy for the 2017 CIERA REU; Aug. 17 18, 2017; Evanston, IL and Chicago, IL.

Other conference abstracts and proceedings

- 2. M. Brightman, R. Margutti, A. Polzin, K. Hotokezaka, A. Jaodand, D. Stern, J. Garcia, B. Grefenstette, K. Madsen, and the HEX-P Team, "The High Energy X-ray Probe (HEX-P): Sensitive broadband X-ray observations of transient phenomena in the 2030s". Poster presented at the 20th Divisional Meeting of the High Energy Astrophysics Division; Mar. 27, 2023; Waikōloa, HI. (Poster)
- 1. M. Brightman, R. Margutti, A. Polzin, S. Gezari, D. Stern, J. Garcia, "The High Energy X-ray Probe (HEX-P): Sensitive broadband X-ray observations of transient phenomena in the 2030s". Poster presented at the 241st American Astronomical Society Meeting; Jan. 9, 2023; Seattle, WA. (iPoster)

Selected Proposals

- (Submitter/Co-I) "Elucidating galaxy quenching in low-mass dwarfs", Magellan/IMACS 2023A Graduate students are not able to PI Magellan proposals at UChicago, so "submitter" indicates primary responsibility.
- (PI) "Elucidating galaxy quenching with absorption probes of halos around low-mass dwarfs", Cycle 30 HST AR-17049 (MAST/ADS)
- (Co-I) "A galaxy apparently formed by star formation in massive, extremely dense clumps of gas", Keck/LRIS + KCWI
- (Co-I) "Radial velocities of low mass galaxies from broad slit spectroscopy with LRIS", Keck/LRIS 2021B
- (Co-I) "A nearby globular cluster-rich ultra diffuse galaxy", Keck/LRIS + KCWI 2020A

HONORS & AWARDS (* INDICATES MAJOR NATIONAL/INTERNATIONAL AWARD)

• WGAP Fellow, IAU North American Regional Office of Astronomy for Development

Women and Girls in Astronomy Program Fellowship and \$1000 in funding for development of VERGE (Virtual Events for Remote Gathering and Engagement) outreach programming. Administered by the International Astronomical Union.

* Honorable Mention, NAS Ford Foundation Predoctoral Fellowship

*Alternate for 2023 award.

2022 & 2023

 $\star\,$ Semi-finalist, Quad Fellowship by Schmidt Futures

2022

• NASA Illinois Space Grant Consortium Graduate Fellowship

Award in the amount of \$10,000 to facilitate academic year research in the space sciences.

2022-2023

• Dean's Emerging Scholars Fellowship, Yale University

2019 - 2022

* Honorable Mention, NSF Graduate Research Fellowship Program

2019 & 2021

• Center for Native American & Indigenous Research Event Co-Sponsorhip Grant Spring/Summer 2019 Northwestern University; award in the amount of \$1000, which facilitated the Lakota Stellar STEM Weekend for middle school-age girls from Pine Ridge Reservation.

• Office of Institutional Diversity & Inclusion Event Sponsorship Grant Spring/Summer 2018 & 2019 Northwestern University; two awards, each in the amount of \$2500, which was sufficient to cover all expenses (travel, food, housing, program costs, incidentals) for Stellar STEM Weekend for middle school girls from the Bad River Ojibwe band and partially funded another Stellar STEM Weekend for half a dozen Lakota girls from Pine Ridge Reservation.

• Northwestern University Dean's List

Spring and Fall 2018

• Weinberg College of Arts & Sciences Research Grant

Award in the amount of \$3500 to facilitate summer research completed in the Yale University Department of Physics:

"Optimizations on the HIRAX radio array"

• Northwestern Summer Internship Grant Program

awarded for Summer 2018

awarded for Summer 2017

Award in the amount of \$3000 to facilitate summer research, turned down in favor of WCAS Research Grant.

• NASA Illinois Space Grant Consortium Undergraduate Fellowship

Award in the amount of \$3000 to facilitate academic year research in the space sciences.

2017 - 2018

* DAAD Research Internship in Science and Engineering

Declined in order to participate in 2017 Northwestern CIERA REU cohort.

* Bruce Fishkin Scholarship Fund (Chicago Tribune)

2014-2018

Full scholarship (including tuition, housing, books, food, and incidental costs) for four years of university education. Applied funding at both the University of Southern California and Northwestern University.

• USC Deans and University Scholarships

2014-2016

Quarter tuition (and additional several thousand dollar supplement) merit-based scholarship attendant to admission to the University of Southern Californa and its Resident Honors Program.

• USC Academic Achievement Award

Spring and Fall 2015

• USC Dean's List

Fall 2014 and Spring 2015

* Fulbright Summer Institute (USC Dornsife News)

2015

- Via the US-UK Fulbright Commission. Opportunity to spend a portion of the summer at Queen's University Belfast learning about conflict resolution and cultural history in a region famous for its profound turmoil and, subsequently, remarkable initiatives to mitigate sectarianism and heal a population traumatized by the Troubles.
- Served as reviewer for 2019 Summer Institute applications.

• USC Dornsife Summer Undergraduate Research Fund

2015

Award in the amount of \$3000 to fund summer research. Project in conjunction with the Thematic Option Interdisciplinary Humanities Honors Program and Fulbright Summer Institute: "9/11 and the Troubles – Representations, Ramifications, Responses, and Realities".

* HERLead (formerly ANNpower)/Vital Voices Grant (Chicago Sun-Times) 2014 & 2014 & 2014 Received for independently established Lakota Cultural Exchange Program. Two awards in the amount of \$2500 each to support exchange and enrichment efforts for girls on Pine Ridge Reservation, South Dakota.

* HERLead Leadership Forum Fellow

2014

• USC Thematic Option Honors Program

admitted 2014

Interdisciplinary humanities honors program, undertaken in lieu of usual general education requirements.

• USC Resident Honors Program

admitted 2014

Invited to apply for, and admitted to, the RHP at USC, which enabled exceptional students to begin their freshman year of college at USC in Los Angeles in lieu of their senior year of high school.

Memberships & Activities

• HEX-P proposal team	2022–Present
• Community Engagement Working Group, UChicago Astronomy & Astrophysics	2022–Present
Dragonfly Telephoto Array Collaboration	2020–Present
American Physical Society	2018–Present
• American Astronomical Society, Graduate Student Member	2017–Present
• Canadian Hydrogen Intensity Mapping Experiment (CHIME) Collaboration	2020 – 2022
• Astronomy Climate and Diversity Committee, Yale University Outreach subcommittee lead and Equity & Diversity Journal Club planning committee member.	2020-2022
• Women in Physics+, Yale University Served as advocacy chair from October 2019.	2019–2022
• Sigma Xi (ΣΞ), Associate Member National scientific research honors society.	inducted 2019
• Sigma Pi Sigma (ΣΠΣ), Northwestern University National physics honors society.	inducted 2018
• Weinberg College Student Advisory Board, Northwestern University Selected by department as Physics & Astronomy representative.	Fall 2018
• Society of Physics Students, Northwestern University - Elected President for 2017-2018 year; assumed duties April 2017	2016-2019
- Initiatives include establishing fundraising effort in conjunction with Dearborn Observatory (selling observatory-branded gear to fund outreach), renovating office and repurposing the space to help it serve as an undergraduate major lounge, planning monthly undergraduate events for prospective and current majors and minors, and working to enhance involvement with department.	
• Society of Women in Physics and Astronomy, Northwestern University	2016-2019
• Sigma Gamma Epsilon ($\Sigma\Gamma$ E), University of Southern California National earth sciences honors society.	inducted 2015

Observing & Computing Experience

- Dragonfly Telephoto Array (52 nights)
- **Keck/LRIS** (2 nights)
- Keck/NIRES (2 nights)
- Magellan/IMACS (3 nights)
- Magellan/LDSS3 (1 night)
- Palomar/TripleSpec (2 nights)
- Midway High Performance Computing Cluster, The University of Chicago
 Cedar High Performance Computing Cluster, Compute Canada
 Quest High Performance Computing Cluster, Northwestern University
 2020–2022
 2017–2019

SELECTED ADDITIONAL PROFESSIONAL TRAINING

• Code/Astro 2023

July 10 - 14, 2023

Hosted at Northwestern University.

Resulted in teltrace, which recovers the temperature and pressure of exoplanet atmospheres from Voigt profile fitting of telluric lines and on which I was one of two primary developers.

• La Serena School for Data Science 2021: Applied Tools for Data-driven Sciences August 2 - 13, 2021 AURA and Universidad de La Serena, hosted virtually. Received full scholarship.

Project entailed training a convolutional neural network to automatically identify transients' host galaxies. See Förster et al. (2022) for additional details (first publication to come out of an LSSDS summer school in program history).