

S. JEAN FEESER

phone: (254) 813-7148 | email: feeser97@gmail.com
website: sjeeser.com | LinkedIn: [linkedin.com/in/s-jean-feeser](https://www.linkedin.com/in/s-jean-feeser)

EDUCATION

- Doctor of Philosophy** | *Astronomy and Astrophysics, Computational Science Minor* Expected May 2030
Pennsylvania State University
- Bachelor of Science** | *Astronomy (Special Honors) and Physics* May 2021
University of Texas at Austin
- Secondary Science (Grades 7-12) Texas Educator Certificate, UTeach Natural Sciences

WORK EXPERIENCE

- High School Science Teacher** January 2022 – June 2024
Stephen F. Austin High School Austin, TX
- Planned and implemented inquiry-based science curriculum (Biology and Advanced Biology, grade 9; Chemistry and Advanced Chemistry, grade 10) with an emphasis on Maker education.
 - Attended weekly professional learning committee meetings to engage students in an educational experience that promotes collaboration, self-directed learning, and empathy-driven design thinking.
 - Organized and directed a group of 10 teachers as academy team lead.
 - Supervised student organizations, including Student Council, Rocketry Club, and Women in STEM Club.
 - Advised and supported 9th and 10th grade students in academic and socio-emotional learning.
- High School Biology Teacher** July 2021 – January 2022
KIPP Austin Brave High School Austin, TX
- Planned and implemented inquiry-based science curriculum (Honors Biology, grade 11).
 - Attended weekly professional development to improve instruction and classroom management skills.
 - Advised and supported 9th grade group in academic and socio-emotional learning.
- Academic Coach** May 2018 – May 2023
GradePower Learning Austin, TX
- Provided academic support for K-12 students in a small group setting (1-3 students)
 - Supported students with cognitive and physical learning disabilities
 - Trained new coaches on proper practices and teaching pedagogy

PUBLICATIONS AND PRESENTATIONS

- Feeser, S. Jean, Best, William M. J., et al. (2022). *Updated Spectral Type Polynomials for Ultracool Dwarfs with CatWISE Photometry*. Research Notes of the American Astronomical Society. 6(12), 265.
- Feeser, S. Jean, & Best, William M. J. (2022). *Using old and new approaches: determining physical properties of brown dwarfs with empirical relations and machine learning models*. Monthly Notices of the Royal Astronomical Society. 513(1), 516-535.
- Feeser, S. Jean, & Best, William M. J. (2021). *Using Old and New Approaches: Determining Luminosities of Brown Dwarfs with Spectral Type Polynomials and Machine Learning*. American Astronomical Society meeting #237, id. 333.02.

HONORS AND AWARDS

Aspire Award for Research Excellence Award for undergraduate work in research, service and leadership, and community engagement	Apr 2021
AISD Future Teacher Scholarship Merit based scholarship for students pursuing a career in STEM education	Sep 2019
Robert Noyce Scholarship Merit based grant for students pursuing a career in STEM education	Apr 2019
Amanda Howze Amsler Endowed Presidential Scholarship Merit based scholarship for students pursuing a career in science and mathematics education	Sep 2019
Charles Butt Scholarship for Aspiring Teachers Merit based scholarship program to support students committed to pursuing a career in education	Apr 2018
Jane Sanford Beasley Scholarship Merit based scholarship for aspiring teachers	Oct 2017
Kodosky Foundation Scholarship Merit based scholarship for physics majors pursuing a teaching certification	Sep 2017
Segal AmeriCorps Education Award for completing a term of service in an AmeriCorps program	Aug 2017

INTERNSHIPS AND FELLOWSHIPS

MakerSpace Intern Ann Richards School for Young Women Leaders	Sep 2019 – May 2020; Sep 2020 – Dec 2020 Austin, TX
<ul style="list-style-type: none">• Assisted in the MakerSpace, supporting students in Maker education activities and projects• Supervised the use of specialized tools and equipment• Taught and enforced safe practices in the MakerSpace	
Assistant Teacher Design Connect Create	May – Jun 2019 Austin, TX
<ul style="list-style-type: none">• Co-instructed with and supported a lead teacher for grades 9-12 female students• Promoted women involvement in STEM fields• Participated in program development and educational training	
Science Department Intern Crockett High School	Jan – May 2019 Austin, TX
<ul style="list-style-type: none">• Assisted the science department composed of 10 experienced high school science teachers• Helped with grading, class instruction, and tutored small groups of students• Facilitated lab preparation and setup of class activities	
Assistant Teacher UTeach Outreach	May – Jul 2018 Austin, TX
<ul style="list-style-type: none">• Co-instructed with and supported a lead teacher for grades 8-9 students• Revised the science curriculum and wrote lesson plans to be used for future programs• Participated in program development and educational training	
Lead Teacher Breakthrough Central Texas Fellowship	May – Aug 2017 Austin, TX
<ul style="list-style-type: none">• Instructed up to 15 grade 7-8 students• Head of the science department, supervised lesson planning that followed the program's guidelines• Lead an extra-curricular committee that organized activities and events for students	

VOLUNTEER AND COMMUNITY SERVICE

AstroNight with Penn State Prepared and presented astronomy demonstrations for campus visitors	Oct 2024 State College, PA
Explore UT with UTeach Maker Designed Maker activities and workshops for campus visitors	Feb 2020 Austin, TX
Museum Day with MathHappens Leader of educational activities in mathematics designed for children	Sep 2019 Austin, TX
Austin Maker Faire with UTeach Maker Presenter addressing educators about Maker lessons in science and mathematics	May 2019 Austin, TX
“College 101” Presentation Day Speaker addressing high school students about science and higher education	Nov 2017 Austin, TX
Part-time AmeriCorps Member Served high-needs students in the local Austin community	May – Aug 2017 Austin, TX
McDonald Observatory Volunteer Telescope operator, tour guide assistant, and Visitor Information Desk attendant	Jul – Aug 2015; Apr 2016 Fort Davis, TX

SKILLS

Languages: English (Native), Spanish (Intermediate)

Education: Lesson Planning, Classroom Management, Curriculum Development, Student Assessment, Project Based Instruction, Maker Education, IEP Documentation and 504 Plan

Programming/Software: Python, MATLAB, Mathematica, C++, LaTeX, CAD

Other: Microsoft Office, Google Drive, Zoom, web design, written and oral communication

REFERENCES

References available upon request