

LINDSAY R. HOUSE

EDUCATION

B.S. in Physics • *University of North Carolina (UNC) Greensboro* • Aug 2018–Dec 2019

- Omicron Delta Kappa Honor Society
- Sigma Pi Sigma National Physics Honors Society

B.A. in Applied Mathematics & Concentration in Biochemistry • *UNC Asheville* • Aug 2012–May 2016

- Distinction in Mathematics
- Sigma Alpha Pi National Society of Leadership and Success

EMPLOYMENT

Science Stage & Planetarium Presenter • *Morehead Planetarium & Science Center* • *Chapel Hill, NC* • Mar 2018–Jul 2019

- Enthusiastically presented live science experiments (chemistry, biology, and physics) to audiences of all ages, creating an interactive, hands-on learning experience for attendees.
- Managed the world-renowned full-dome theater during planetarium shows.

Substitute High School Math Teacher • *Leesville Rd. High School, Wake County* • *Raleigh, NC* • Feb 2018–Jun 2018

- Taught high school math II & honors math III as a full-time, long-term substitute.
- Planned lessons, ran classroom, and educated over 100 high school students.

High School Assistant Director • *Girls Talk Math* • *Chapel Hill, NC* • Summer 2018

- Organized and led a free summer camp for high school girls interested in math. The camp aimed to foster a comfortable environment for women in mathematics, encouraging and enabling them to improve in math.
- Helped teach quantum mechanics to young women interested in physics, focusing on problem-solving skills.

Certified Pharmacy Technician • *Mission Hospital: Inpatient Pharmacy* • *Asheville, NC* • Dec 2014–Aug 2018

- Operated and managed machines that dispense medication for hundreds of patients staying in the hospital.
- Provided quick, efficient responses working under pressure when medical staff required STAT medication.

RESEARCH EXPERIENCE

Physics-JILA Research Experience for Undergraduates • *University of Colorado Boulder* • *Boulder, CO* • Summer 2019

- Performed a research study of my own design in which I created, piloted, evaluated, and compared two interactive activities (a lecture tutorial and whiteboard problems) for teaching stellar occultations to introductory astronomy students within the planetarium. The project will be written up for peer-reviewed publication.

Undergraduate Research in Astronomy Education • *UNC Greensboro* • *Greensboro, NC* • Fall 2018–Present

- Conducted an original research project centered around the growth mindset model and concentrated on improving college-level introductory astronomy students' self-efficacy in STEM.
- Presented this work at two conferences, listed below.
- Winner of the Undergraduate Research and Creativity Award Grant; selected recipient of funding for astronomy research.

Research Assistant • *Eshelman Institute for Innovation Laboratory* • *Chapel Hill, NC* • Aug 2017–Dec 2017

- Working with an interdisciplinary team, completed hundreds of hours of research, ran tests, built prototypes, and developed a business model for bringing a novel osmotic transdermal patch to market or through clinical trials.

Undergraduate Research in Applied Mathematics • *UNC Asheville* • *Asheville, NC* • Aug 2015–May 2016

- Developed a multivariate model for the effects of blood alcohol concentration depending on sex, food intake, etc.

Undergraduate Research in Kinesiology • *UNC Asheville* • *Asheville, NC* • Aug 2015–May 2016

- Conducted research studying how mental exercise affects participating in physical exercise.
- Invited to present at the Southeastern Fitness Expo.

ADDITIONAL TEACHING & MENTORSHIP

Teaching Assistant for Introductory Astronomy • *UNC Greensboro* • *Greensboro, NC* • Jan 2019–Present

- Led supplemental instruction sessions for 135 students; guided students, helping them improve in astronomy.

Teaching Assistant for Human Anatomy • *UNC Asheville* • *Asheville, NC* • Aug 2014–Dec 2014

- Assisted professor in leading an upper level human anatomy laboratory for 28 students; led independent dissection of various specimens; held open tutoring sessions.

Math Club Active Member • *UNC Asheville • Asheville, NC* • Aug 2012–May 2016

- Tutored students in various math mathematics subjects beginning with Pre-Calculus.

SCIENCE COMMUNICATION & OUTREACH

Outreach Executive, Society of Physics Students • *UNC Greensboro • Greensboro, NC* • Sep 2018–Present

- Elected to the leadership role and responsible for recruiting new members across campus as well as organizing community outreach events with, for example, local high schools.

Solar Observer Volunteer • *Astrophysics Lab: North Carolina Museum of Natural Sciences • Raleigh, NC* • Feb 2018–Aug 2018

- Operated the solar telescope for public viewing and assisted during outreach events such as International “SUN” day.

Active member, Women in Science • *UNC Chapel Hill • Chapel Hill, NC* • Aug 2017–Present

- Served as a role model and encouraged middle school girls to pursue careers in science.
- Raised money to bring women to speak about their personal experiences as leaders in science.

Volunteer, Science Olympiad: Regional Competition • *Asheville, NC* • Apr 2016

- Coordinated two events: the bottle rocket competition and the geology lab.
- Hosted a group of young competitors, providing a positive experience, and assisted with demonstrations at each station.

STUDENT & PROFESSIONAL LEADERSHIP

American Astronomical Society Ambassador • Dec 2017–Present

- Invited to the 231st AAS meeting and attended a two day workshop on science communication and astronomy outreach.
- Responsible for holding educational public outreach events.

Chancellor’s Ambassador • *UNC Asheville • Asheville, NC* • Aug 2013–May 2016

- Nominated by faculty and selected by Chancellor to help host events for the university community and potential donors.

University Student Ambassador • *UNC Asheville • Asheville, NC* • Aug 2012–May 2016

- Administered daily tours for prospective students and hosted some overnight, showing them a typical day on campus.

Senior Class Board Member • *UNC Asheville • Asheville, NC* • May 2015–May 2016

- Raised funds for the senior class and future students and planned various celebratory events for seniors.

CONFERENCES ATTENDED

Physics Education Research Conference • *Provo, UT* • July 2019

American Association of Physics Teachers • *Provo, UT* • July 2019

- Presented poster: *Content within introductory astronomy can impact how students feel towards astronomy, themselves, and humanity.*

American Astronomical Society 233 • *Seattle, WA* • January 2019

- Presented poster: *Can grandeur overcome insecurity? Seeking specific astronomy course experiences that can diminish stereotype threat and enhance students’ self-efficacy.*

Conference for Undergraduate Women in Physics • *Williamsburg, VA* • January 2019

- Presented poster: *Can grandeur overcome insecurity? Seeking specific astronomy course experiences that can diminish stereotype threat and enhance students’ self-efficacy.*

American Astronomical Society 231 • *National Harbor, MD* • January 2018

SOCIETAL MEMBERSHIPS, CERTIFICATIONS, & ADDITIONAL SKILLS

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| • American Assoc. of Physics Teachers | • Certified in <i>Teaching Excellence</i> | • Proficient in LATEX |
| • American Astronomical Society | • Certified substitute teacher | • Proficient in basic Python & Java |
| • American Physical Society | • Certified pharmacy technician | • Well-versed in data analysis using Microsoft Excel |
| • Astronomy Society of the Pacific | • Certified in CPR | • Knows basic Spanish & French |
| • Astronomers Without Borders | | |
| • Society of Physics Students | | |