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.

 $\textbf{Undergraduate Research in Kinesiology} ~ \textbf{\textit{UNC Asheville *Asheville}, NC} ~ \textbf{*} ~ \text{Aug 2015-May 2016} \\$

- 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

- * American Assoc. of Physics Teachers
- American Astronomical Society
- American Physical Society
- * Astronomy Society of the Pacific
- Astronomers Without Borders
- * Society of Physics Students
- * Certified in Teaching Excellence
- Certified substitute teacher
- Certified pharmacy technician
- · Certified in CPR

- Proficient in LATEX
- * Proficient in basic Python & Java
- Well-versed in data analysis using Microsoft Excel
- * Knows basic Spanish & French