
Lindsay R. House

410 Gray Avenue Durham, NC 27710
(828) 545-9275 | L_house@uncg.edu | LinkedIn: www.linkedin.com/in/lindsayhouse

Education

B.A. in Physics

University of North Carolina Greensboro, Greensboro, NC

Aug 2018 - Dec 2019

- ❖ Omicron Delta Kappa Honor Society

B.A. in Applied Mathematics; Concentration in Biochemistry

University of North Carolina Asheville, Asheville, NC

Aug 2012 - May 2016

- ❖ Distinction in Mathematics
- ❖ Phi Eta Sigma National Honors Society
- ❖ Sigma Alpha Pi National Society of Leadership and Success

Employment

Science Stage & Planetarium Presenter, Morehead Planetarium and Science Center

March 2018 - Present

- ❖ Enthusiastically presents live experiment science shows (chemistry, biology, and physics) to people of all ages, allowing an interactive, hands-on learning experience for attendees
- ❖ Manages the full-dome theatre during various planetarium shows. The planetarium at MPSC in Chapel Hill, NC is one of the biggest in the Southeast and has been used to train astronauts like Neil Armstrong

Substitute High School Math Teacher, Wake Co. Public Schools, Raleigh, NC

March 2018 – June 2018

- ❖ Taught high school math II & honors math III in a long-term position for a teacher on maternity leave
- ❖ Planned lessons, ran a classroom, and educated over 100 high school students at Leesville Rd. 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
- ❖ Advised the group of high-school girls interested in physics and assisted them through a quantum mechanics problem set over the course of the summer, teaching them valuable problem-solving skills

Certified Pharmacy Technician, Mission Hospital: Inpatient Pharmacy, Asheville, NC

Dec 2014 – Aug 2018

- ❖ Operate and manage machines that dispense medication for hundreds of patients staying in the hospital.
- ❖ Provide quick, efficient responses working under pressure when medical staff require STAT medication

Research Experience

Undergraduate research in Astronomy, UNC Greensboro

Fall 2018 - Present

- ❖ Created an original a project titled, *Can Grandeur Overcome Insecurity? Seeking Specific Astronomy Course Experiences That Can Diminish Stereotype Threat and Enhance Students' Self-efficacy*, which is centered around the growth mindset model (a theory developed at Stanford by Carol Dweck) and concentrates on improving college-level introductory astronomy students' self-efficacy in STEM
- ❖ Grant winner of the Undergraduate Research and Creativity Award, Selected recipient of funding for astronomy research study

Eshelman Institute for Innovation Laboratory

Aug 2017 - Present

- ❖ Worked at the cutting edge in an innovation lab under faculty to break barriers within the healthcare system
- ❖ Formed a team with a pharmacy student, PhD student, medical student, MBA student and collaborated for to complete the business canvas model and bring a new product to market or through clinical trials
- ❖ Completed hundreds of hours of research, ran tests, built prototypes over the course of a year for an osmotic transdermal patch that has never been invented

Undergraduate Research in applied mathematics, UNC Asheville

Aug 2016 – May 2016

- ❖ Worked on a project for calculating blood alcohol concentration, developed a multivariable equation and manipulated it to show the effects of alcohol that are dependent on sex, food intake, number of drinks, etc.

Undergraduate Research in Kinesiology, UNC Asheville

- ❖ Conducted research titled *Exercising the Brain*. I studied the process of how mental exercise effects participating in physical exercise from a scientific prospective. Presented an oral research presentation at Southeastern Fitness

Teaching and Mentorship

Teacher's Assistant (TA) Introductory Astronomy, UNC Greensboro

Jan 2019 – Present

- ❖ Assisted 135 students in learning introductory astronomy- stars and galaxies

- ❖ Provided and acted as a resource for students to improve in astronomy by leading supplemental instruction sessions for students to attend

Teacher's Assistant (TA) Human Anatomy, UNC Asheville Aug 2014 – Dec 2014

- ❖ Assisted 28 students and the professor in leading an upper level human anatomy laboratory, led independent dissection on various specimens, held open voluntary tutoring for the students to improve

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

- ❖ Tutored students in various math mathematics subjects beginning with Pre-Calculus
- ❖ Invited to participate in a wide range of mathematics competitions

Science Communication & Outreach

Outreach Executive, Society of Physics Students, UNC Greensboro Sept 2018 – Present

- ❖ Elected to the leadership role and responsible for recruiting new members across campus into SPS as well as communicating with sources outside of UNC Greensboro, such as local high schools, to participate in effective community outreach

Solar Observer Volunteer, North Carolina Museum of Natural Sciences Feb 2018 – Aug 2018

- ❖ Trained and operated the solar telescope in the astrophysics lab for the public and participated in public outreach events such as International "SUN" day

Active member, Women in Science (WinS), Chapel Hill, NC Aug 2017 – Present

- ❖ Led by example and encouraged women, specifically middle school girls, to pursue careers in science
- ❖ Raised money to bring women to speak about their personal experience leading in the science industry

Volunteer, Science Olympiad: Regional Competition, Asheville, NC April 2016

- ❖ Assisted in coordinating an event for the bottle rocket competition and geology lab
- ❖ Led groups to and from events and ensured a great experience filled with a STEAM encouraging environment and then assisting professors in the science competition

Student and Professional Leadership

American Astronomical Society Ambassador Dec 2017 – Present

- ❖ Accepted ambassador and was provided means to attend the 231st AAS meeting in Washington D.C. and attend a two-day workshop on science communication, specifically in astronomy outreach
- ❖ Serves as an outreach ambassador and responsible for three educational public outreach events in science

Chancellor's Ambassador, UNC Asheville, Asheville, NC Aug 2013 - May 2016

- ❖ Nominated by faculty and further hand-selected by the Chancellor
- ❖ Assist the chancellor in hosting events at her house for the community, faculty, staff, alumni, and potential university donors and guests

University Student Ambassador, UNC Asheville, Asheville, NC Aug 2012 - May 2016

- ❖ Administering daily tours and informing prospective students of the university
- ❖ Hosting potential students overnight, taking them to class, providing a place to sleep, and showing them a typical day on campus

Active Member, Senior Class Board, UNC Asheville, Asheville, NC May 2015 - May 2016

- ❖ Raised over \$1,200 for the senior class and future students at UNC Asheville. Planned various events for seniors throughout the year to celebrate and boost morale

Conferences Attended and Societal Memberships

- | | |
|---|------------------------------------|
| ❖ AAS 233, Seattle, Washington - Poster presentation | ❖ American Physical Society |
| ❖ Conference for Undergraduate Women in Physics (CUWiP) William and Mary– poster presentation | ❖ Society of Physics Students |
| ❖ AAS 231, National Harbor, MD | ❖ Astronomers Without Borders |
| | ❖ Astronomy Society of the Pacific |
| | ❖ American Astronomical Society |

Skills & Certifications

- | | |
|--|---|
| ❖ Certified in Teaching Excellence workshop | ❖ Developing proficiency in Python |
| ❖ Certified Substitute Teacher | ❖ Mastered basic LaTeX formatting |
| ❖ Certified pharmacy technician | ❖ Proficient in basic programming in Java |
| ❖ Certified in CPR by the American Red Cross | ❖ Knows basic Spanish and French |