

Lindsey Fox

Conway, SC 29526 • (843) 349-4173 • lfox@coastal.edu • linkedin.com/in/lindseyfox15

Education

Rensselaer Polytechnic Institute – Troy, NY Class of 2015
Master of Science in Applied Mathematics
GPA: 3.95

University of Vermont – Burlington, VT Class of 2014
Bachelor of Science in Mathematics
GPA: 3.68

Awards

Coastal Office of Online Learning Cohort 8 Course Development Grant January 2019
•Awarded a grant to create a Calculus for Social Science Hybrid course

Coastal Office of Online Learning Course Enhancement Grant October 2018
•Awarded a grant to create a Calculus for Business Hybrid course

Teaching assistantship at Rensselaer Polytechnic Institute August 2014-May 2015
•Full tuition and 18,500 stipend scholarship

Green and Gold Scholar August 2011-May 2014
•Full tuition scholarship

Selected for National Science Foundation NOYCE Research Summer 2013
•Selection to do research funded by the National Science Foundation under a stipend

Summer Science Teacher Selection Summer 2010
•Acknowledged for outstanding work in chemistry and biology and awarded with a summer teaching position for grades 5-8

Achievements

Dean's List January 2011-May 2015
Poultney High School Valedictorian June 2011
Society of Women Engineer's Highest Honors June 2011
Highest honors in Chemistry June 2011
26 College Credits earned through dual enrollment in high school August 2010-June 2011

Research

National Science Foundation, Noyce Summer Scholars Program, Burlington, VT Summer 2013
•Assisted Harvard Alumnus in applying combinatorics to abstract algebra to create and analyze large sets of data
•Worked 36 hours per week individually to explore further what was uncovered with my research advisor in the 4 hours spent together
•Gained experience in creating bijections between two separate data sets
•Received weekly training from the National Science Foundation in teaching and advising students interested in STEM

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Rensselaer Polytechnic Institute, Troy, NY

August 2014-May 2015

- Read articles in a four-credit independent research course about schizophrenia to begin novel research practices modeling schizophrenia in January 2015
- Utilized mathematical knowledge to assist in molecular biology research in Fall 2014
- Researched using basic scientific method to look at efficacy of various antibiotic treatments in graduate level microbiology in Spring 2015

Activities

Lecturer Hiring Search Committee Member

Coastal Carolina University Dept of Mathematics

SIAM Chapter Member

Rensselaer Polytechnic Institute

90 Hours of Community Service per semester

University of Vermont

- Peer note taker in upper level math and science courses for college students with special needs

Relevant Coursework

- | | | |
|--------------------------|--------------------------|-----------------------------|
| • Diversity in Education | • Calculus I-III | • Linear & Abstract Algebra |
| • Differential Equations | • Computer Programming I | • Real Analysis |
| • General Chemistry | • Microbiology | • Anatomy and Physiology |
| • Molecular Biology | • Blood Cell Biology | • Statistics |

Related Experience

Calculus Course Coordinator at Coastal Carolina University

January 2017-Present

- Organizing course content and design
- Leading and supporting each calculus instructor in the math department
- Holding meetings to help each instructor create consistency between sections
- Implementing quality control in tracking student achievement and course statistics
- Creating a Business Calculus (Math 132) Website: <https://lindseyfox15.wixsite.com/math132>
- Writing a 100-page guidebook for all instructors and students to use each semester for Math 132
- Designing a new course for Coastal called Calculus for Social Science (Math 133)
- Writing a 100-page guidebook for all instructors and students to use each semester for Math 133

Senior Lecturer in Mathematics

Fall 2021-Present

- Lecturing to students in class,
- Creating digital content to make course materials and extra resources available through streaming
- Holding office hours, Outreach hours and Math Learning Center hours to engage and interact with students outside of the classroom and all over campus
- Providing in-person instruction and digital content for courses in college algebra, calculus for social science and business calculus

Promotion and Tenure Track Committee Member

Spring 2021

- Met weekly with committee member from within the math department that held different ranks to create a unified system for promotion
- Evaluated current documents provided to math faculty looking to promote to discuss any potential changes we could make to improve the process
- Generated our own unique content to provide even more guidance for faculty looking to promote
- Held meetings with the entire department to discuss, vote on and ultimately approve documents we had created

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Lecturer of Mathematics at Coastal Carolina University

August 2015-Spring 2021

- Lectured to students in class
- Held office hours to ensure an exceptional learning experience
- Held Outreach tutoring sessions weekly on campus in an effort to connect with students and provide additional help students enrolled in any math course
- Provided instruction in courses such as college algebra, contemporary mathematics, precalculus, calculus I, calculus for social science and business calculus

Lecturer Search Committee Member

October 2019-May 2020

- Reviewing applications for the 3-5 open positions open for a lecturer in mathematics
- Weekly meetings with the 3 other members of the search committee
- Creating questions for phone interviews and in-person interviews
- Constructing a lesson plan for all candidates to teach off of
- Calling references for each candidate that made it beyond a phone interview
- Collecting and evaluating panel results from all lecturers present during in-person teaching presentations

Teaching Assistant at Rensselaer Polytechnic Institute

August 2014-May 2015

- 130 students over 4 sections of Calculus II
- Created lesson plans based on various textbooks and structure of Rensselaer curriculum
- Lectured in front of a class in an interactive manner where students are expected and encouraged to ask questions, give answers, and participate
- Held office hours to provide exceptional understanding for students who do not grasp the material completely during interactive lecture
- Provided office hours and being available by appointment to offer advise to students about suggested courses and future internships/career prospects
- Gained experience in creating, proctoring and grading quizzes in order to provide a fair assessment to all students
- Proficiency in creating and maintaining accurate grade books so as to keep up with the progress of all of my students
- Delicately approached the few students that are not catching on as quickly as others in order to investigate what learning styles would work better for them and give out time management advice

Mathematics Tutor at the University of Vermont

August 2011-May 2014

- Private and group tutoring for college students in mathematics, statistics, chemistry and anatomy and physiology courses that were struggling to learn the material
- Went over previous homework problems prior to exams in order to delve into exactly what portions of the course they did not understand

Exam Proctor

September 2012 – May 2014

- Practiced confidentiality while working with college students who required special accommodations
- Exploited verbal and written skills to assist in scribing and reading for students that necessitated additional assistance on their exams as mandated by their physical or mental disabilities

Noyce Summer Scholars Program

Summer 2013

- One of the seven University of Vermont students selected to do independent research funded by the National Science Foundation

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- Performed research and analysis in combinatorics applied to abstract algebra to create and analyze large sets of data
- Created bijections between two separate data sets
- Received NOYCE training through specialized instructors on how to become a great teacher and advisor in STEM
- Explored with the group of 6 other students the trials that face teachers in STEM and how to inspire students to explore STEM
- Studied different teaching methods and looked into different ways that various types of students learn

Summer Science Teacher in Chemistry and Biology

Summer 2010

- Selected for aptitude in chemistry, biology and over all STEM (science, technology, mathematics and engineering) to be the only high school student teaching a summer science program for kids in grades 5-8 who excelled in those studies
- Gained experience in planning lessons and applying for funding
- Honed in teaching skills to utilize fun and innovative methods of teaching when exploring topics in order to inspire kids to pursue careers and further education in STEM fields, which was the point of the town-funded program

Skills

- LaTeX
- MATLAB
- JMP Statistical Software

Special Interests

- Improving student classroom experience and student learning and competence
- Educating students on steps to take in order to become successful in their coursework and future career