

**Data + Computing = Discovery!**  
National Science Foundation Research Experience for Undergraduates

**Research Methods and Professional Development Seminar**  
Summer 2023

Instructor Information

**Anna Thonis**

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**Catherine Feldman**

PhD Candidate, Physics  
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Seminar

Every Wednesday from 2:30 – 4:00 pm EST, from June 2 – August 2

Location

IACS Seminar Room

Seminar office hours

By appointment

Seminar description

This seminar aims to aid students in developing their communication skills (e.g., presenting, writing, networking), technical reading comprehension, and coding proficiency as professionals in their respective fields. Because students in this seminar are coming from a range of backgrounds with a wide breadth of interests, students are encouraged to think about how lessons learned during this seminar will allow them to grow and progress as scientists, science communicators, and professionals in their fields of interest.

Zero Tolerance Policy

In order to promote meaningful and constructive dialogue throughout the seminar, we must foster a safe and inclusive environment that welcomes open discussion and personal growth. This seminar encourages viewpoints from a breadth of backgrounds; however, we must always share these viewpoints with a high degree of respect for one another. Use of any language or behavior that disrespects or discriminates against those of any race, ethnicity, religion, sexual orientation, gender identity, age, mental or physical disability, or political beliefs will not be tolerated. Such behavior will be immediately reported to the NSF REU organizers (Drs. Matthew Reuter and Alan Calder) and appropriate action will be taken.

## Tentative Syllabus

<b>Date</b>	<b>Topic</b>	<b>Leading seminar</b>
<b>June 7</b>	Software Carpentry Workshop	Alan and Catherine
<b>June 14</b>	Informational interviewing	Catherine
<b>June 21</b>	How to use LaTeX and Overleaf	Catherine
<b>June 28</b>	Mid-program roundtable meeting	Alan
<b>July 5</b>	CVs – Students will receive feedback on CV design and revisions during the seminar	Anna and Catherine
<b>July 12</b>	Building and maintaining a professional website – Students will begin developing their own websites during the seminar	Anna
<b>July 19</b>	Literature searches, efficiency/effectively reading scientific papers, the publication and peer review processes.  File organization, data storage and data sharing; preprints and data/methods transparency	Anna
<b>July 26</b>	Networking at conferences/meetings / using social media for networking and finding job/internship/graduate school opportunities.  Lightning talks of their research so far	Anna
<b>Aug 2</b>	Career Panel	Anna