

Data + Computing = Discovery!
National Science Foundation Research Experience for Undergraduates
Research Methods and Professional Development Seminar
Summer 2024

Instructor Information

Scott Nelson

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Khanak Bhargava

PhD Student, 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 organizer (Alan Calder) and appropriate action will be taken.

Tentative Syllabus

Date	Topic	Instructor
June 12	How to use LaTeX and Overleaf	Scott
June 19	Software Carpentry Workshop	Scott
June 26	Building and maintaining a professional website – Students will begin developing their own websites during the seminar	Scott
July 3	Informational interviewing	Khanak
July 10	CVs – Students will receive feedback on CV design and revisions during the seminar	Khanak
July 17	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	Scott
July 24	Networking at conferences/meetings / using social media for networking and finding job/internship/graduate school opportunities. Lightning talks of their research so far	Khanak
July 31	Career Panel	Khanak