

# Navin Bhattarai

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📁 Portfolio  
in Navin Bhattarai

## Education

### Truman State University, Kirksville, MO

Major: Bachelor of Arts in Physics-Dual Degree Program

Cumulative GPA: 4.0 / 4.0  
Expected Graduation: May 2026

### Relevant Coursework

Ordinary Differential Equation, Multi-Variable Calculus, Modern Physics, Vibrations and Waves, Foundation of Computer Science (Intro to C++), Astronomy: Intro to Solar System, Basic Statistics, Logic

## Work Experience

### Center of Academic Excellence

Academic Peer Tutor for Physics, Mathematics, Computer Science and Statistics

Aug 2023 – Present  
Truman State University

- Conducted tutoring hours (5-7 hours) and provided extra support outside classroom.
- Provided one-to-one support to 6+ students every week in various courses.
- Prepared daily reports of tutoring hours summarizing the turnout and conceptual questions.

### Student Union and Involvement Services

Building Operations Assistant Manager

Aug 2022 – Present  
Truman State University

- Facilitated events and activities by coordinating with 20+ clubs and organizations.
- Collaborated with the management team of 20+ people to compliant facility by ensuring adherence to regulatory standards and codes.
- Ensured proper room set-up, tear down, and maintenance for 50+ events.

## Research and Involvement

### Dye-Sensitized Solar Cells using Natural Dyes (DSSCs)

Research Assistant

Feb 2024 – Present

- Designed experiments for extracting natural dyes from plant sources, characterized their properties using UV-visible spectroscopy, and fabricated laboratory-level DSSCs.
- Analyzed experimental data, interpreted results, and drawn conclusions regarding the feasibility and effectiveness of plant-based natural dyes as alternatives to toxic metal complex sensitizers in DSSCs.

### Society of Physics Student

Demo Chair

Aug 2023 – Present

- Facilitated bi-weekly meeting with 15+ members, utilizing various instruments to effectively illustrate physics concepts.
- Led physics illustration and study sessions for (2 - 4)hours promoting analytical learning.

### Science Olympiad

Supervisor, Optics and Wi-Fi Lab

Mar 2023, Mar 2024

- Inspected 24+ experimental tests and administered theoretical written exams.
- Evaluated 12+ group tests and ensured the publication of accurate and unbiased results.

### Baptist Student Union

Student Volunteer

Mar 2023

- Delivered basic resources like food, clothes and hygiene supplies to underprivileged community of 1.5K+ people.
- Partnered with *People Loving Nashville* and *The Bridge, Inc.* to strategize and execute a service initiative aimed at maximizing our outreach and impact on the wide-community.

## Honors and Awards

### Truman State University

- International President's Honorary Scholarship
- Gerald and Norma McReynolds Scholarship
- President's List (Fall 2022, Spring 2023, Fall 2023)

2022 – Present  
Spring 2024

### SOS Hermann Gmeiner School Bharatpur, Nepal

- Certificate of Academic Excellence

Dec 2021

## Other Skills

**Computer** : VS code, C++, Python, HTML, CSS, LaTeX

**Language** : Nepali, English, Hindi, Urdu