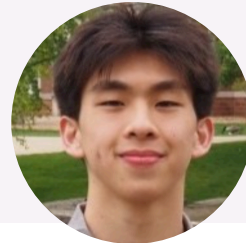


# Jeffrey Hu

Material Science & Engineering | Computer Science (CS) Minor

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📞 [803-979-1692]    🔗 linkedin.com/in/jeffreyhu-tech



## EDUCATION

University of Illinois Urbana-Champaign 🌐

📅 Aug 2024 – May 2028

B.S. Material Science and Engineering, Minor in CS

Champaign, IL

- **College:** The Grainger College of Engineering
- **Relevant Skills:** Object-Oriented Programming (OOP), Data Structures, machine learning, vibe programming, data science.

## EXPERIENCE

Mechanical Team Member

📅 Sep 2025 – Present

Illini Solar Car

Champaign, IL (On-site)

- Design, manufacture, and validate mechanical systems for a solar-electric vehicle.
- Optimized chassis stiffness and aerodynamics using Siemens NX and CAD tools.

CS124 Assistant Tutor

📅 Sep 2025 – Present

The Grainger College of Engineering

Champaign, IL (Remote)

- Assist students with course concepts in Java and Object-Oriented Programming (OOP).
- Provide academic support to reinforce understanding of data structures and algorithms.

Summer Research Intern

📅 Summer in 2023 and 2024

USC Department of Computer Science & Engineering

University of South Carolina

- Gained hands-on experience with machine learning, specifically focusing on Long Short-Term Memory (LSTM) models.
- Applied deep learning techniques to materials science research contexts including materials property prediction and oxidation state prediction.

## PUBLICATIONS

- 📄 Fu, N., **Hu, Jeffrey**., Feng, Y., Morrison, G., Loye, H.C.Z. and Hu, J., 2023. Composition based oxidation state prediction of materials using *deep learning language models*. **Advanced Science**, 10(28), p.2301011. (IF:14.2)
- 📄 **Hu, Jeffrey**, David Liu, Nihang Fu, and Rongzhi Dong. Realistic material property prediction using domain adaptation based machine learning. **Digital Discovery** 3, no. 2 (2024): 300-312.
- 📄 Hu, Jeffrey, and Yuqi Song. "Piezoelectric modulus prediction using machine learning and graph neural networks." **Chemical Physics Letters** 791 (2022): 139359.

## TECHNICAL SKILLS

Programming & CS

Java Python OOP Data Structures

Engineering & Tools

Siemens NX CAD Machine Learning

LSTM Deep Learning

## LANGUAGES

English (Native/Bilingual)

Chinese (Professional Proficiency)

## INTERESTS

Solar Electric Vehicles

Member of Illini Solar Car Mechanical Team

"Innovating at the intersection of Materials Science and Computer Science."