

Daniel J.E. Moore

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EDUCATION

Missouri University of Science & Technology | Rolla, Missouri

Jan 2022 – Present

Bachelor of Science in Economics, Minor in Computer Science, GPA 3.9/4.0 *Expected Graduation, Dec 2025*

Relevant Coursework: Statistics, Calculus, Financial Economics, Data Science Case Studies, Data-Driven Strategy

TECHNICAL SKILLS

Programming: Python (NumPy, Pandas, scikit-learn, PyTorch, TensorFlow), Latex, HTML & CSS, SQL, R

Software: JMP, Tableau, Excel, Bloomberg Terminal

PROFESSIONAL & RESEARCH EXPERIENCE

Research Assistant

May 2022 – Dec 2022

Missouri S&T Materials Research Center | Rolla, Missouri

Assisted graduate students with a variety of projects under Dr. Richard K. Brow

- Headed the fabrication of glass-to-metal seals with additive manufacturing, successfully designing and fabricating both glass and metal components.
- Conducted the analytical study of glass preforms, employing video analysis and thermal data to optimize the organic removal and sintering processes, enhancing project efficiency and outcome.
- Managed and operated a range of analytical equipment in the absence of graduate students, providing critical data that directed the project's trajectory and contributed to key research findings.

Research Assistant

Jan 2022 – May 2022

Cement Micro-calorimetry | Missouri S&T

Conducted micro-calorimetry measurements on calcium silicate hydrate seeded cement under Dr. Monday Okoronkwo

- Executed precise micron-level measurements on Portland Cement samples seeded with CSH, leveraging advanced calorimetry techniques to ensure high accuracy and reliability of results.
- Developed and refined models to depict the kinetics of cement hydration reactions, employing collected thermodynamic data to enhance the understanding of cement's structural and compositional dynamics.

Sales Agent

Jul 2020 – Jun 2021

Midwest Communications | Springfield, Missouri

Marketing agency that specializes in time-share relief.

- Managed the integration of a significant propane client base into targeted marketing campaigns, enhancing client engagement and sales.
- Adapted to the pandemic's challenges by maximizing virtual sales seminars, significantly increasing customer reach and sales volumes.

PROJECTS & ACTIVITIES

Missouri S&T ACM-AI Website Development

February 2024 - Present

Personal Project.

- Established a webpage that significantly improves the chapter's ability to communicate with members, disseminate AI-related content, and showcase project and research opportunities.
- Collaborated closely with the ACM AI Executive Board to conceptualize and implement a dynamic website that serves as a central hub for AI resources, event information, and member engagement.

Mushroom Fruiting Tent

2021

Personal Project

*Successfully grew *Hericium Erinaceus* and *Pleurotus Ostreatus* from flesh samples obtained at the supermarket. The flesh samples were cloned in a petri dish and then colonized in fruiting blocks.*

- Designed and built a prototype for a humidity tent to facilitate mushroom growth with proper sterility and fresh air exchange.
- Solved mycelium contamination issues by designing and building a 12x12x16 laminar flow hood and improving sterile techniques.