Matthew Stuart Jones

847-431-7231 | matthew.stuart.jones@icloud.com | Portfolio Website

EDUCATION

Bachelor of Science, Computer Science   (4.0 GPA)   Projected Graduation, May 2027

- University of Kentucky
- Minors: Mathematics and Vocal Performance
- Artificial Intelligence Certificate
- Study Abroad Experience in Bilbao, Spain (Universidad de Deusto)

RESEARCH EXPERIENCE

Independent Study with Dr. Brent Harrison   Upcoming, Spring 2026

- Human Centered AI, AI Ethics

AI Researcher for ACCESS,
UK Center for Computational Sciences (CCS)   October 2024 – Present (Including Summer 2025)

- MCP categorizer to select a specific AI Agent based on the user's query
- RAG model to assist users in drafting allocation abstracts and proposals based on past submissions
- LLM based tagging algorithm to categorize proposals based on their abstracts
- Improved existing AI models through document verification and retraining

INVITED TALKS

- HON 251: Technology and the Human Experience (Honors) Guest Lecturer: "A Brief Overview of AI Policy", Fall 2025

CONFERENCES

- "UK NSF Regional AI Workshop" – Lexington, Kentucky   October 7, 2025
- "UK AI/ML Research Symposium" – Lexington, Kentucky   March 28, 2024, November 12, 2024
- "UK Commonwealth Computational Sciences Summit on AI" – Lexington, Kentucky   October 17, 2023

SKILLS

- **AI/ML Development:** Hands on experience with OpenAI, Ollama, and open source LLMs.
- **Mathematical Foundation:** Strong theoretical background in algorithms, linear algebra, probability, and numerical methods, with upcoming training in deep learning and models of computation.
- **Programming & Systems:** Proficient in Python for machine learning & AI (NumPy, pandas), SQL, and full-stack web development (JavaScript, HTML, CSS); proficient with C, C++, Linux, and R.
- **Applications:** RAG and MCP AI models with advanced document reranking and multi-LLM tournament schemes, predictive text tools in C++, Arduino hardware, and responsive website deployment.
- **Communication and Collaboration:** Public speaking, technical presentations, and team leadership in academic and extracurricular settings; cross-cultural experience from study abroad in Spain (conversational Spanish).

RELEVANT COURSEWORK

- **CS 315:** Algorithms
- **CS 270:** Systems Programming
- **PPL 306:** Ethics and Civic Leadership – revolved around AI Public Policy
- **MA 322:** Matrix Algebra and Its Applications
- **MA 321:** Intro to Numerical Methods
- **MA 320:** Introductory Probability

-- Spring 2026 Featured Coursework --
- **CS 485:** Data Ethics
- **CS 575:** Models of Computation

HONORS AND AWARDS
- Dean's List – 5 Semesters
- Pigman College of Engineering Marky Campbell Scholarship
- UK Bluegrass Spirit Scholarship
- UK Education Abroad Scholarship

PROFESSIONAL ORGANIZATIONS
- Kentucky Alpha Chapter of Tau Beta Pi

ORGANIZATIONS AND INVOLVMENT
- acoUstiKats a cappella group – Social Media Manager
- Tau Beta Pi – Treasurer
- UK Men's Chorus – Section Leader

REFERENCES
- Dr. Jim Griffieon, University of Kentucky
    a. Director of UK Center for Computational Sciences
    b. Phone: (859) 257-6746
    c. Email: griff@netlab.uky.edu
- Dr. Bruce Walcott, University of Kentucky
    a. Tau Beta Pi Faculty Advisor
    b. Email: bruce.walcott@uky.edu
- Dr. Cory Curl, University of Kentucky
    a. Director of Undergraduate Studies, Martin School of Public Policy
    b. Phone: (859) 562-3182
    c. Email: cory.curl@uky.edu
- Dr. Brent Harrison, University of Kentucky
    a. Director of Undergraduate Studies, Pigman College of Engineering Computer Science
    b. Phone: (859) 257-8040
    c. Email: brent.harrison@uky.edu
- Dr. Joe Martin, University of Kentucky
    a. Senior Lecturer, School of Information Science
    b. Email: joe.martin@uky.edu