Michael Joseph Ellis

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Clemson, South Carolina - 29631, United States

Objective

As an aspiring researcher, I am dedicated to merging human-centered computing with artificial intelligence to enhance human-AI interactions. With a strong foundation in psychology, human factors, and machine learning, I seek to develop and research algorithms that prioritize ethical standards and user-focused design. My goal is to contribute to diverse projects that improve technological understanding and influence on human behavior and decision-making.

Experience

- **Machine Learning & Big Data Creative Inquiry** *8/23 - Current*
  Undergraduate Researcher Clemson, SC
  - Convolutional Neural Networks, Recurrent Neural Networks, Natural Language Processing, & Computer Vision
- **Risk Communication & Decision Making Creative Inquiry** *8/24 - Current*
  Undergraduate Researcher Clemson, SC
  - Risk Communication, Decision-Making Processes, Individual Differences in Risk Perception, Behavioral Economics, & Risk Management Strategies
- **HATLab (Humans and Technology Research Lab)** *8/24 - Current*
  Undergraduate Researcher Clemson, SC
  - Human-Centered Computing, Human Factors, Human-Computer Interaction, Health Informatics, Usable Privacy & Security, Privacy-Enhancing Technologies, & Designing for Special Populations
- **Summer REU for Machine Learning & Big Data Creative Inquiry** *05/2024–08/2024*
  Undergraduate Researcher Clemson, SC
  - Computer Vision Research Project
- **Sweetgrass Baskets & Dry Accessories (Family Business)** *2010 – 2022*
  Vendor Charleston, SC

Education

- **B.Sc., Computer Science** *08/2023 – Current*
  Clemson University Clemson, SC
- **B.Sc., Psychology** *08/2024 – Current*
  Clemson University Clemson, SC
- **Minor, Artificial Intelligence** *08/2024 – Current*
  Clemson University Clemson, SC
- **Hanahan High School** *08/2019–05/2023*
  Secondary Education Hanahan, SC

Publications

[1] Ellis, M.*, Niemczura, A.*, Marquez, E., & Chen, R.*, et al. (2024). **Semantic Segmentation for Off-Road Traversal**. Poster presented at the Clemson Undergraduate Research Poster Symposium, July 2024.

[2] Ellis, M.*, Smith, M., Faykus, M., & Pickeral, A. (2024). **Snake Game AI**. Poster presentation at the 7th Annual Clemson University Student Research Forum, Clemson, SC, April 2024.

[3] (To appear) [**Acknowledgement in**] Max H. Faykus III*, Adam Pickeral*, Ethan Marquez, Dr. Melissa C. Smith, & Dr. Jon C. Calhoun. (2024). **Efficient Vision Transformers for Autonomous Off-Road Perception Systems**. Scientific Research Publishing SCIRP.

Skills

- **Programming Languages:** C, C++, C#, JavaScript, Java, HTML, Python, LaTeX.
- **Development & Managed Platforms:** Linux & Unix, Microsoft Windows.
- **Parallel Programming Libraries:** CUDA.
- **Frameworks & Libraries:** Tensorflow, PyTorch, Keras, OpenCV, Pandas, NumPy, Scikit-learn.
- **Tools & Platforms:** Jupyter Notebooks, Google Colab.
- **Research Skills:** Literature Review, Data Analysis, Data Visualization