Michael Joseph Ellis

+1-(843)-974-7825 | mje2@clemson.edu | Portfolio Website

LinkedIn | GitHub |

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 for Off-Road Traversal

Education

- **B.Sc., Computer Science** *Expected Graduation - May 2027*
  Clemson University Clemson, SC
- **B.Sc., Psychology** *Expected Graduation - May 2027*
  Clemson University Clemson, SC
- **Minor, Artificial Intelligence** *Expected Graduation - May 2027*
  Clemson University Clemson, SC
- **Relevant Courses**
  Clemson University
  - Comp. Sci. Ethics, Software Dev. Foundations, Intro to Comp. Organiz., Algorithms & Data Structures, Abnormal Psych., Lifespan Developmental Psych., Cognitive Psych.

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

Other

- **Leadership/Extracurricular:** International Honors Society for Psychology Psi Chi (Member), Alpha Lambda Delta, American Psychological Association (Member), AI Club (Member), Psychology Club (Member), Piano Club (Member)
- **Languages:** English, American Sign Language (Elementary Proficiency), Filipino (Elementary Proficiency)
- **Personal Interests:** Reading, Writing, Coding, Fitness, Listening to Music, Piano, Cooking, Calligraphy