Curriculum Vitae

Personal Information

Michael Joseph Ellis, B.S Undergraduate Student
Undergraduate Researcher
Clemson University
College of Engineering, Computing & Applied Sciences
School of Computing
College of Behavioral, Social & Health Sciences
Department of Psychology
105 Sikes Hall, Clemson SC, 29634
Clemson, United States

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Email: mje2@clemson.edu
Homepage: https://michael-joseph-ellis.github.io
GitHub: `https://github.com/Michael-Joseph-Ellis`
Linkedin: `https://www.linkedin.com/in/michael-joseph-ellis-56b47130a/`

Birth date: 27 May 2005
Place of birth: Atlanta, Georgia. U.S
Ethnicity: Blasian (African American & Filipino)

Education

08/2023–Current **B.Sc., Computer Science**
Clemson University, Clemson, SC

08/2024–Current **B.Sc., Psychology**
Clemson University, Clemson, SC

08/2024–Current **Minor in Artificial Intelligence** Clemson University, Clemson, SC

08/2019–05/2023 **High School Degree** Hanahan High School, Hanahan, SC

Professional Experience

05/2024–08/2024 **Clemson University**
Position: Summer REU Undergraduate Researcher
Project: Machine Learning & Big Data
Supervisor(s)/Mentor(s): Dr. Melissa Smith, Max Faykus III (Ph.D. student), Adam Pickeral (M.Sc.)

2010–2022   **Sweetgrass Baskets & Dry Accessories (Family Business)**
Position: Vendor

Academic Experience

08/2023–Current   **Machine Learning & Big Data Creative Inquiry**
Position: Undergraduate Researcher
Location: Clemson University
Research Topic(s): Convolutional Neural Networks, Recurrent Neural Networks, Natural Language Processing, & Computer Vision
Supervisor(s)/Mentor(s): Dr. Melissa Smith, Max Faykus III (Ph.D. student), Adam Pickeral (M.Sc.)

08/2024–Current   **Risk Communication & Decision Making Creative Inquiry**
Position: Undergraduate Researcher
Location: Clemson University
Research Topic(s): Risk Communication, Decision-Making Processes, Individual Differences in Risk Perception, Behavioral Economics, & Risk Management Strategies
Supervisor(s)/Mentor(s): Dr. Jinan Allan, Alantis Baldwin (Ph.D. student)

08/2024–Current   **HATLab (Humans and Technology Research Lab)**
Position: Undergraduate Researcher
Location: Clemson University
Research Topic(s): Human-Centered Computing, Human Factors, Human-Computer Interaction, Health Informatics, Usable Privacy & Security, Privacy-Enhancing Technologies, & Designing for Special Populations
Supervisor(s)/Mentor(s): Dr. Kelly Caine, Dr. Bart Knijnenburg

Publications

Posters

1. Ellis, M.*, Smith, M., Faykus, M., and Pickeral, A. Snake game ai. Poster presentation at the 7th Annual Clemson University Student Research Forum, Clemson, SC, April 2024

2. Ellis, M.*, Niemczura, A.*, Marquez, E.*, Chen, R.*, Eyabi, P.*, Faykus, M., Pickeral, A., and Smith, M. Semantic segmentation for off-road traversal. Clemson Undergraduate Research Poster Symposium, July 2024

Acknowledgements (Acknowledged/Given Credit in)

1. (To appear) Max H. Faykus III*, Adam Pickeral*, Ethan Marquez, Dr. Melissa C. Smith, and Dr. Jon C. Calhoun. Efficient vision transformers for autonomous off-road perception systems. Scientific Research Publishing SCIRP, 2024

Research Skills

Literature Review: Conducting comprehensive literature reviews using academic databases.

Data Analysis: Analyzing quantitative and qualitative data using tools like Python, Excel.

Data Visualization: Presenting research findings through data visualization tools like Matplotlib.

Computer Skills

Programming Languages: C, C++, C#, JavaScript, Java, HTML, Python, Bash, LaTeX.

Development & Managed platforms: Linux & Unix, Microsoft Windows.

Parallel Programming Libraries: CUDA.

Frameworks & Libraries: Tensorflow, PyTorch, Keras, OpenCV, Pandas, NumPy, Scikit-learn, OpenGL.

Tools & Platforms: Jupyter Notebooks, Google Colab.

Psychology Skills

Developmental Psychology: Limited working knowledge of developmental stages and milestones from infancy through adulthood.

Understanding of Psychological Disorders: Gained through coursework in Abnormal Psychology, focusing on behavioral patterns associated with various mental health conditions.

Relevant Coursework

Computer Science

Computing Ethics & Society

Machine Learning & Big Data Creative Inquiry

Software Dev. Foundations

Computer Organization

Psychology

Abnormal Psychology

Risk Communication & Decision-Making Creative Inquiry

Cognitive Psychology

Lifespan Developmental Psychology

Math & Statistics

        Linear Algebra

HONORS, AWARDS & SCHOLARSHIPS

May 2024	Dean's List. Shows that the student received a GPA between 3.5 and 3.99.
Dec. 2023	Dean's List. Shows that the student received a GPA between 3.5 and 3.99.
May. 2023	Valerie Gaddy Memorial Scholarship. Essay Scholarship

LICENSES & CERTIFICATIONS

2024	Human Subjects Protections. (CID 64679184)
2024	APA Membership 2024. (CID C2404952785)
2023	Seals of Distinction.

EXTRACURRICULAR & ORGANIZATIONS

Jan. 2024	Alpha Lambda Delta - (Member)
Jan. 2024	American Psychological Association (APA) - (Member)
Aug. 2023	Clemson Artificial Intelligence Club - (Member)
Aug. 2023	Clemson Piano Club - (Member)
Aug. 2023	Clemson Psychology Club - (Member)

MEETINGS AND WORKSHOPS ATTENDED

July 2024	Diffusion Model for Image Generation
July 2024	REU Intellectual Property and Ethics Workshop
July 2024	Grad 101 Talk
June 2024	NSF- Graduate Research Fellowship Program
April 2024	TIDE Conference Session 4, Innovation, Inclusion, and Integrity: A Roadmap for A.I. in Academia
April 2024	TIDE Conference Session 2, Human Centered A.I.: A Path Forward To A More Ethically Inclusive Future

Tools, Artifacts & Projects

2024	CPSC Coursework
2024	UNET Architecture Research Project (Summer REU)
2024	Snake Game AI Using Different ML Algorithms
2023	Flower Recognition CNN
2023	First Portfolio Website

Volunteering

1. **Blood Donor** The Blood Connection. Date. 2023.

2. **Blood Donor** The Blood Connection. Date. 2024.

Personal Interests

Reading, Writing, Coding, Fitness, Listening to Music, Piano, Cooking, Calligraphy

Languages

English

Filipino (Elementary proficiency)

ASL (Elementary proficiency)

Reference

Dr. Melissa C. Smith   (Ph.D. MLBD CI Advisor/Mentor)

Position:	Associate Dean for Inclusive Excellence & Graduate Studies Acting Chair
Department:	Holcombe Department of Electrical and Computer Engineering
Address:	110 Riggs Hall, Clemson, SC 29634
Email:	smithmc@clemson.edu

Dr. Jinan Allan   (Ph.D. Risk Communication & Decision-Making CI Advisor/Mentor)

Position:	Assistant Professor
Department:	Department of Psychology
Address:	Brackett 410-B, Clemson, 29634
Email:	jinana@clemson.edu

Dr. Bart Knijnenburg   (Ph.D. HATLab Advisor/Mentor)

Position:	Associate Professor
Department:	School of Computing (Human-Centered Computing Divison)
Address:	McAdams Hall 205, Clemson, 29634
Email:	bartk@clemson.edu

Mr. John-Austin Wyatt   (M.Ed current CPSC advisor)

Position:	Student Services Coordinator at Clemson University
Department:	School of Computing
Address:	McAdams Hall 104, Clemson, 29634
Email:	johnauw@clemson.edu

[CV compiled on September 22, 2024 for the position N/A]

Clemson - United States, September 22, 2024