Brennen Green

brennengreen@outlook.com
859-312-0852 (Cell)
https://www.brennengreen.dev/

108 Erica Drive
Georgetown, KY 40324

RESEARCH INTERESTS

Computer Graphics, Computer Vision, Parallel Computing, Data Science, Artificial Intelligence

EDUCATION

B.S. Computer Science, (Applied Mathematics and Computer Science Double Major) May 2023 – University of Kentucky, 3.90 GPA

RESEARCH EXPERIENCE

Undergraduate Research Assistant, Dr. Peng Wang's Augmented Intelligence for Smart Manufacturing Lab, University of Kentucky, January 2021 – Present

Undergraduate Research Assistant, Dr. Guoqiang Yu's Biomedical Optics Lab, University of Kentucky, March 2020 – October 2020

INDUSTRY EXPERIENCE

Twitch Interactive – Video Streaming Engineering Intern May 2021 – August 2021

Intel Corporation – Controller Integration Engineering Co-op October 2020 – May 2021

PUBLICATIONS

Primary Author

Green, Brennen, et al. *High-Speed Imaging of Cerebral Blood Flow Using Parallel Computing on the Graphics Processing Unit*. Biomedical Engineering Society Annual Meeting, 2020

Secondary or Tertiary Author

Mohtasebi, Mehrana, et al. *"Noncontact Optical Assessment of Spontaneous Low-Frequency Fluctuations of Cerebral Blood Flow in Neonatal Intraventricular Hemorrhage"* Society of Photo-Optical Instrumentation Engineers Photonex + Vacuum Expo, 2020.

CONFERENCE PRESENTATIONS

2020, Brennen Green, "High Speed Imaging of Cerebral Blood Flow Using Parallel Computing on the Graphics Processing Unit" Biomedical Engineering Society Annual Meeting and Commonwealth Computation Summit, Virtual.

RELEVANT COURSEWORK

Numerical Methods, Intermediate Computer Graphics, Artificial Intelligence, Machine Learning, Optimization, Probability, Statistics, Linear Algebra, Calculus 1-3, Differential Equations

HONORS / AWARDS

University of Kentucky College of Engineering Dean's List (Fall 2019-Fall 2020)

University of Kentucky College of Engineering Scholarship (2020-2021)

SERVICE

Computer Science Outreach Chair, Engineering Outreach Board (2019-2020)

MEMBERSHIPS / AFFILIATIONS

Association of Computing Machinery
Biomedical Engineering Society

SKILLS

Languages: C++, C, Python
Frameworks/Software: OpenGL, Unity, MATLAB, Jupyter Notebook, Torch, NumPy, CUDA