**DAVID PETTY BRICKLER**

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**Research Interests**

Virtual Reality (VR), Haptic Feedback, Head-Mounted Displays (HMD), Large-Screen Immersive Displays (LSID), Spatial Distortion, Perception-Action Cycle, 3D Interaction Metaphors, Fitts’ Law.

Artificial Intelligence (AI)

**Dissertation Topic**

Investigating Visuo-Haptic Interaction Fidelity and Display Metaphors on Near-Field Fine Motor Selection and Manipulation Tasks in Virtual Reality

**Education**

Ph.D. Human-Centered Computing 2013 – 2021

Clemson University

GPA: 3.75

Bachelor of Science, Magna Cum Laude 2009 – 2013

Morehouse College

GPA: 3.76

**Research and Work Experience**

SAGE Visiting Professor of AI 2024-present

Morehouse College

Postdoctoral Researcher 2022-2024

**Morehouse College**

Postdoctoral Fellowship 2021-2022

**University of Utah**

Graduate Research/Teaching Assistantships 2014- 2021

**Clemson University**

**Courses Taught (Morehouse College)**

* HCSC 260: Computer Organization
* HCSC 330: Web Programming
* HCSC 340: Human-Computer Interaction
* HCSC 480 Special Topics: Generative AI
* HCSC 480 Special Topics: AI and Advanced Manufacturing

**Courses Assisted in Teaching (Clemson University)**

* CPSC 1011: Computer Science I
* CPSC 1021: Computer Science II
* CPSC 1200: Introduction to Information Technology
* CPSC 2200: Microcomputer Applications
* CPSC 4820/6820: Tangible Embodied Interfaces

**Academic Awards**

* Microsoft-AUC Data Science Mini-Grant Award 2024
* ACM SAP Best Presentation *honorable mention* 2020

**Conferences Attended**

* Supercomputing Conference 2023, 2024
* ACM Symposium for Applied Perception 2020, 2021
* IEEE Virtual Reality Conference 2014, 2016, 2018, 2019, 2020, 2021, 2024

**Programming Languages**

|  |  |  |
| --- | --- | --- |
| * C
 | * HTML
 | * Python
 |
| * C++
 | * Java
 | * R
 |
| * C#
 | * JavaScript
 |  |
| * CSS
 | * PHP
 |  |
|  |  |  |

**Software Proficiencies**

|  |  |  |
| --- | --- | --- |
| * Unity3D Game Engine
 | * Adobe Premiere Pro
 | * Repetier-Host for 3D Printing
 |
| * IBM SPSS Statistics
 | * Blender
 | * OpenSCAD
 |
| * JMP Statistics
 | * Microsoft Visual Studio
 | * MATLAB
 |
| * Microsoft Excel
 | * Microsoft Access
 | * Fusion 360 CAD
 |
| * LangChain
 | * HuggingFace Hub
 |  |

**References**

Dr. Kinnis Gosha Current Advisor

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Morehouse College

Dr. Sabarish V. Babu Former Advisor

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Dr. Andrew Robb Dissertation Committee Member

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School of Computing

Clemson University