Isayas Berhe Adhanom

Education

- University of Nevada, Reno, NV, United States
- (Expected) Ph.D. in Computer Science and Engineering
 - 2019 University of Nevada, Reno, NV, United States M.Sc. in Computer Science and Engineering
 - 2016 Eritrea Institute of Technology, Asmara, Eritrea B.Sc. in Computer Engineering

Honours & Awards

- 2021 Graduate Access Grant, University of Nevada, Reno
- 2021 Google CS Research Mentorship Program Mentee, Google
- 2020 Graduate Access Grant, University of Nevada, Reno
- 2020 Graduate Student Association Travel Award, University of Nevada, Reno
- 2018 Summer Tuition Award (Not Accepted), University of Nevada, Reno
- 2017-2018 **Graduate Dean's Fellowship**, University of Nevada, Reno
 - 2017 CS Graduate Student Scholarship (Not Accepted), University of Houston
 - 2016 Great Distinction Honor, Eritrea Institute of Technology

Selected Publications

- Journal I. B. Adhanom, M. Al Zayer, P. MacNeilage, E. Folmer. 2021. Field-of-View Restriction to Papers Reduce VR Sickness Does not Impede Spatial Learning in Women. ACM Transactions on Applied Perception (TAP). 18, 2, 1-17.
 - A. Prithul, I. B. Adhanom, E. Folmer. 2021. Teleportation in Virtual Reality; A Mini-Review. Frontiers in Virtual Reality. 2. 138.
 - I. B. Adhanom, P. MacNeilage, E. Folmer. 2021. Eye-tracking in Virtual Reality: a Broad Review of Applications and Challenges. Virtual Reality. In review.

- Refereed A. Prithul, I. B. Adhanom, E. Folmer. 2021. Embodied Third-Person Virtual Locomotion using Full Papers a Single Depth Camera. In Proceedings of Graphics Interface (GI 2021).
 - I. B. Adhanom, S. C. Lee, E. Folmer, P. MacNeilage. 2020. GazeMetrics: An Open-Source Tool for Measuring the Data Quality of HMD-based Eye Trackers. In Proceedings of Symposium on Eye Tracking Research and Applications (ETRA '20). 645-652.
 - I. B. Adhanom, N. N. Griffin, P. MacNeilage, E. Folmer. 2020. The effect of a foveated field-of-view restrictor on VR sickness. In 2020 IEEE conference on virtual reality and 3D user interfaces (IEEEVR '20). 1-5.
 - M. Al Zayer, I. B. Adhanom, P. MacNeilage, E. Folmer. 2019. The effect of field-of-view restriction on sex bias in vr sickness and spatial navigation performance. In Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI 2019). 1-12.

- Workshop
 Papers & Posters
 Posters
 Posters
 P. Pavilionis, I. B. Adhanom, M. R. Taylor, L. Netzel, M. Kelly, D. Hopfe, N. Constantino, FACSM, N. G. Murray. 2021. Virtual Reality application for the Vestibular/Ocular Motor Screen: a comparison with a novel prototype. In Annual Meeting of the American College of Sports Medicine (ACSM).
 - **I. B. Adhanom**. 2021. <u>Towards Universal VR Sickness Mitigation Strategies</u>. In 2021 IEEE Conference on Virtual Reality and 3D User Interfaces
- Preprints I. B. Adhanom, E. M. Hand. 2019. A First Look into Neural Machine Translation for Tigrinya. Preprint, To be submitted to the ACM Transactions on Asian and Low-Resource Language Information Processing

Selected Experience

- 2018 Now University of Nevada, Reno, Graduate Research Assistant, Reno, NV.
- 2013 Now **Binogi International**, Independent Educational Content Developer.
- 2015 2017 **Eritrea Institute of Technology**, *Software Engineer*, Asmara, Eritrea.
- 2013 2017 Emmanuel IT Solutions Provider, Software Engineer, Dekemhare, Eritrea.
- 2008 2009 Dekembare Comprehensive Secondary School, Instructor, Dekembare, Eritrea.

Teaching Experience

- 2021 University of Nevada, Reno, Co-Lecturer for CS484/684 Virtual Reality Course, Reno, NV.
- 2020 University of Nevada, Reno, Teaching Assistant for CS484/684 Virtual Reality, Reno, NV.
- 2008-2009 **Dekemhare Comprehensive Secondary School**, *Instructor of the Information & Communication Technology Class*, Dekemhare, Eritrea.

Selected Presentations

- 2021 GazeMetrics: An Open-Source Tool for Measuring the Data Quality of HMD-based Eye Trackers, ETRA 2021, Invited Talk (Planned)
- 2021 Towards Universal VR Sickness Mitigation Strategies, IEEEVR 2021, Doctoral Consortium
- 2021 The Effect of a Foveated Field of Restrictor on VR Sickness, IEEEVR 2020
- 2020 Measuring the Spatial Accuracy and Precision of VR HMD-based Eye Trackers, Smith Kettlewell Eye Research Institute, Invited Talk

Academic Service

Reviewer ETRA2021, IEEEVR2021, CHI2020, VRST2020

Web Chair ISVC2018, ISVC2019, ISVC2020, ISMCO2019, ISMCO2020

Community Coding Instructor for NSF GAIN Scholars, University of Nevada, Reno (August 2021)

Service Scholars are selected Ph.D. students who are first-generation or from historically underrepresented backgrounds.

Students Mentored

- 2019-2020 Ceslee Montgomery, Graduate Student, Georgia Tech, Mentored Through BlackInAl
 - 2020 Andrea Estep, Undergraduate CS Student, University of Nevada, Reno
 - 2020 Trevor Olsen, Undergraduate CS Student, University of Nevada, Reno
 - 2020 Frederick Shafer, Undergraduate CS Student, University of Nevada, Reno