# Abenezer Wudenhe

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## EDUCATION

**University of California, Riverside** (UCR) — PhD (Computer Science)
- SMART Fellow — Expected: May 2024
- Chancellor's Distinguished Fellow
- GAANN Fellow

**University of Maryland, Baltimore County** (UMBC) — BS (Computer Engineering)
- Meyerhoff Scholar — May 2018 (Cum Laude)
- NSA Scholar

## PROFESSIONAL EXPERIENCE

**ARMY CYBER DWD Internship** — 2019 May – Aug 2019

***Software Engineering Intern***.

Assess new technologies for ARMY Big Data Platform. Determine potential and cost of machine learning application Explore Amazon Kinesis tool for reduction of database overhead.

**Extreme Storage and Computer Architecture Lab** (ESCAL) — 2018 Aug – Present

***Graduate research assistant to Dr. Hung-Wei Tseng***.

Conduct research with a focus on memory acceleration and hardware software co-design. Investigate new accelerator for domain specific application.

**University of Michigan Lab 4PROGRESS REU** — 2017 May - Aug 2017

***Undergraduate research assistant to Dr. Chad Jenkins***

Applied cluster computing methods to robotic visualization techniques and object recognition. Utilized computer networking and Message Passing Interface (OpenMPI) for applicationsDeveloped GPU accelerated image rendering using Nvidia drivers and CUDA programing.

## PUBLICATION

**A. Wudenhe**, Hung-Wei Tseng. TPUPoint: Automatically Characterizing Hardware Accelerated Data Center Machine Learning Program Behavior. In IEEE International Symposium on Performance Analysis of Systems and Software, ISPASS 2021, 2021.

**A. Wudenhe**, F. S. Choa, Q. Meng. Three-dimensional EEG signal tracking for reproducible brain activity monitoring. IEEE Xplore Digital Library 2017. 7846869.

## TECHNICAL SKILLS

- Experience programming in **C, C++, python**, **CUDA**, html, MPI, php, Arduino, OpenMP, Open MPI, TensorFlow, Skilearn, Javascript, NodeJS
- Experience writing technical documents using LaTex, BibTex, Word
- Experience with Xilinx Design Tool, MATLAB, Cadence's Allegro Design Entry CIS, Atmel Studio