

Keneni Worku Tesema

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EDUCATION

Swansea University

Ph.D., Computer Science

Computer Vision, Machine Learning, Point Cloud Completion

Swansea, Wales, UK

Nov 2022-Present

Honors and Awards:

- UKRI International Bursary
- EPSRC CDT Award 2019/20 - Ep/S021892/1

MSc, Computer Science

MSc in Enhancing Human Collaborations and Interactions with Data and Intelligence-Driven Systems (CDT), Distinction

Swansea, Wales, UK

Sept 2021-Oct 2022

Honors and Awards:

- EPSRC CDT Award 2019/20 - Ep/S021892/1

China Three Gorges University (CTGU)

Bachelor of Engineering

Electrical Engineering and Automation, GPA 3.82

Hubei, P.R. China

Sept 2017- July 2021

Honors and Awards:

- Chinese Scholarship Council One Road One Belt Full Scholarship
- Most Outstanding International Student of CTGU 2020
- Outstanding Student Cultural Exchange Scholarship

Addis Ababa Science and Technology University (AASTU)

Certificate in Electromechanical Engineering, GPA: 3.72/4.00

Addis Ababa, Ethiopia

Sept 2015- July 2017

RESEARCH AND PUBLICATIONS

Swansea University

- **Human-centered Point Cloud completion for subsea survey:** a PhD research program on point cloud completion in collaboration with the marine survey company: Beam.
- **Publications:**
 - Keneni W. Tesema, Lyndon Hill, Mark W. Jones, Muneeb I. Ahmad and Gary K.L. Tam, Point Cloud Completion: A Survey, in IEEE Transactions on Visualization and Computer Graphics, vol. 30, no. 10, pp. 6880-6899, Oct. 2024. <https://dx.doi.org/10.1109/TVCG.2023.3344935>
 - Keneni Worku Tesema, Lyndon Hill, Mark W. Jones and Gary K.L. Tam, Denoising-While-Completing Network (DWCNet): Robust Point Cloud Completion under Corruption, accepted for Computers and Graphics, Sep. 2025. <https://dx.doi.org/10.48550/arXiv.2507.16743>

CTGU, College of Electrical Engineering and New Energy (EENE)

- **Dissertation (Thesis) project:** Designed a high voltage DC Power Supply based on a series-resonant constant-current charging capacitor, Investigated the Thevenin model of Distribution generators and

the effect of their integration in to grid on system voltage, designed a functional Signal Generator

- **Siemens Cup China, 2019- manufacturing competition:** (Hubei province-level) motion control competition runner up, simulated an S-400, S-1200, and S-300 PLC based machines by using an integrated TIA-PORTAL and STEP-7 software, **and** designed a line following, obstacle avoiding robot by using an 8051 microprocessor and Arduino board

WORK EXPERIENCE

Swansea University

Teaching Assistant

Swansea, Wales, UK

Jan 2021-Present

- Big Data and Machine Learning, Human-Computer Interaction (HCI), Visual Analytics, Data Visualization

NHK-World

Remote, UK

Oct 2023-Present

- TV Program Monitor

Almaz Mamo Kiosk

Addis Ababa, Ethiopia

June 2013- Sep 2021

- Salesperson/Marketing (part-time)

LEADERSHIP/ TEAMWORK EXPERIENCE

CTGU EENE International Students' Community

Vice President

Hubei, P.R. China

Mar 2019 – July 2021

- Recruited the established members of the International Students' Community
- Hosted the Closing ceremony of the 4th International Conference on Intelligent Green Building and Smart Grid (IGBSCG 2018)

CTGU International Students Association (ISA)

Vice President

Hubei, P.R. China

Dec 2018- Dec 2019

- Recruited new members, Supervised and Delegated Sports, and Academic Departments
- Organized the 8th annual Peach Blossom festival with the help of the Chinese Students Association
- Organized the winter sports competition, Science-fest, and Debate competition for international students in CTGU in 2018 and 2019

SKILLS

Research skills: Implementing state-of-the-art Point Cloud Completion, Segmentation, Detection and Point Cloud Denoising models, Visual SLAM, Generative AI with Diffusion Models, Data Parallelism, Rapid Application with Large Language Models (LLMs).

Technical skills: PyTorch, CUDA, Docker, Unreal Engine (CARLA), Singularity/Apptainer, SLURM, R, SQL, C, C++, Java, Matlab, Multisim, Proteus, SIMATIC-Step 7, Simulink software

Language skills: English (*Full professional fluency*), Amharic (*Native fluency*), Chinese (*working fluency*)

Interests/hobbies: Creative Writing, Reading, Sports (volleyball, running)