Chisom Ezekannagha

Personal Information

Cell Phone   +49 (0)176 74526736
Email   chisom.ezekannagha@uni-marburg.de
Address   Hans-Meerwein-Str. 6, D-35032, Marburg, Germany

Education

2020– Present   **PhD, Computer Science, Bioinformatics**, *Philipps-Universität Marburg*, Germany.

2016 – 2018   **Master of Science, Computer Science (Bioinformatics)**, *University of Ibadan*, Nigeria.
CGPA: 5.5/7.0

2009 – 2013   **Bachelors of Science, Computer Science**, *Anambra State University*, Uli, Nigeria.
CGPA – 3.94/5.00

Work Experience

Oct 2020 – Present   **Research Assistant**, Heider Lab, Philipps-Universität Marburg, Marburg, Germany .
- Creating automatic visualization workflows
- Developing exploratory data analysis framework for information storage systems based on biological and chemical compounds
- Tutor and organize workshops for multiple undergraduate and graduate students

May 2018 – Oct 2019	**Research Supervisor**, International Institute of Tropical Agriculture, Ibadan, Nigeria.

- ○ Developed and implemented scripts to parse, process, and analyze genome-wide data sets for RNA sequencing and gene expression studies
- ○ Carried out data analyses in parallel on large compute cluster; integrate, organize and analyze program output
- ○ Managed research data-sets on file servers and ensure their appropriate backup, completeness, correctness and integrity
- ○ Prepared reports of findings by compiling results, generating figures, and preparing tables from analyses of genomics studies
- ○ Developed research objectives, projects and proposals

May 2017 – April 2018	**Research Fellow**, International Institute of Tropical Agriculture, Ibadan, Nigeria.

- ○ Developed new computational method called GeAnnotate for annotation of Cassava genes
- ○ Used programming languages such as R/Python for pipeline development
- ○ Made presentations at conferences/exhibit work at other appropriate events
- ○ Assisted in preparing scientific presentations, grant applications and manuscripts

Complementary Education

2022 **OxML Summer school**, *Oxford Machine Learning summer school*, University of Oxford, England.
(Virtual)

2021 **Bio+Med+Vis Spring school**, *The 1st Spring School on Biological and Medical Visualization*, (Virtual).

2019 **Workshop**, *Next Generation Sequencing Bioinformatics*, University of Witswatersrand, Johannesburg, South Africa.

2016 **Training**, *H3ABioNet Introduction to Bioinformatics Course (IBT)*, University of Ibadan, Nigeria.

Publications

2022 **Ezekannagha, C., Heider, D., Hattab, G.**, *DNAsmart: Multiple Attribute Ranking Tool for DNA Data Storage Systems*, Computational and Structural Biotechnology Journal, (under review).

2022 **Ezekannagha, C., Becker, A., Heider, D., Hattab, G.**, *Design considerations for advancing data storage with synthetic DNA for long-term archiving*, Materials Today Bio, `https://doi.org/10.1016/j.mtbio.2022.100306`.

2022 **Kaya, G., Ezekannagha, C., Heider, D., Hattab, G.,**, *Context-Aware Phylogenetic Trees for Phylogeny-based Taxonomy Visualization*, Frontiers in Genetics, `https://doi.org/10.3389/fgene.2022.891240`.

2021 **Olagunju, T., Ezekannagha, C., Gisel, A.**, *3'-Tag RNA-Sequencing*, EMBnet.journal, `https://doi.org/10.14806/ej.26.A.968`.

Selected Conferences

2022 24th EG Conference on Visualization (EuroVis). Rome, Italy. (attendee, Student Volunteer)

2022	The 1st International Conference on Data storage in Molecular Media (DSMM).Bielefeld, Germany. (Presenter)
2021	IEEE Visualization Conference (VIS). New Orleans, Louisiana, USA. (attendee)
2021	11th EG Workshop on Visual Computing for Biology and Medicine (VCBM).Paris, France. (attendee)
2021	Symposium on Interdisciplinary Bioinformatics and Biomedical Data Science (IBB-MDS).Marburg, Germany. (attendee)
2020	IEEE Visualization Conference (VIS). Salt Lake City, Utah, USA. (attendee)
2020	Eurographics & Eurovis (EGEV). Norrköpping, Sweden. (attendee)

Teaching

2021	**Course**, *Data Visualization*, Department of Mathematics and Computer Science, University of Marburg. Marburg, Germany. 1 SEM. (co-tutor)
2020–2022	**Seminar**, *Biological Data Visualization*, Department of Mathematics and Computer Science, University of Marburg. Marburg, Germany. 3 SEM. (co-tutor)

Grants

2019	**Welcome Genome Campus**, *Next Generation Sequencing Bioinformatics*, University of Witswatersrand, Johannesburg, South Africa, (Travel Grant).
2016	**H3Africa**, *H3ABioNet Introduction to Bioinformatics Course (IBT)*, University of Ibadan, Nigeria, (Training Grant).

Skills

Language	Igbo(Native), English(Fluent), German(Elementary)
IT skills	

- Progamming: JavaScript(React, D3), R, Python
- Database: SQL, MySQL
- Scripting: UNIX Shell, XHTML
- Office productivity: Microsoft Office Suite, LaTeX
- Machine Learning: TensorFlow, Scikit-learn

Additional skills	Bioinformatics, Data Visualization, Web Development
Soft skills	

- Excellent organizational and communication skills
- Good Interpersonal skills with great ability to function in multicultural environment
- Ability to work effectively and productively in a team

Interests

I enjoy taking time away from the screen and enjoy outdoor activities- Hiking and Running.