

# Ruth Akintunde

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## EDUCATION

### North Carolina State University

Raleigh, NC

#### Ph.D., Computer Science

December 2021

- Granted National Interest Waiver for exceptional abilities in the field of Science.
- Received National Science Foundation Research Fellowship.
- Awarded Generation Google Scholarship.

### North Carolina State University

Raleigh, NC

#### Masters, Computer Science

December 2019

- Received National Center for Women & Information Technology Collegiate Award.

### University of Lagos

Nigeria

#### Bachelors, Computer Science

October 2011

- Best Graduating student, First Class Honors.
- Received Federal Government Scholarships.

## PROFESSIONAL EXPERIENCE

### SAS

2021 - Present

#### Machine Learning Developer

Develop and maintain high-quality machine learning and artificial intelligence solutions. Research prototypes, and select appropriate machine learning/AI methods and computational algorithm. Implement proof of concept as well as production-grade AI solutions.

### Game2Learn Lab, North Carolina State University

2019 - 2021

#### Graduate Research Assistant

Led research projects that applied machine learning techniques and deep learning architectures to design smart personalized educational games and intelligent tutoring systems

#### Accomplishments:

- Published research findings and novel techniques for improving learning and academic games.

### SAS

Summer 2020

#### Machine Learning R&D Intern

Implemented warm start for Hyperparameter tuning. Leveraged Python and R in SAS pipelines.

#### Accomplishments:

- Contributed to the Meta-Learning project.
- Won First Place in the SAS Hackathon – Evaluated the impact of education on national poverty rate.

### Electrical & Computer Engineering Summer Camp, NCSU

Summer 2019

#### Robotics Camp Counselor

Lectured high school students on robotics and programming.

#### Accomplishments:

- Introduced high school students to robotics and the pros of choosing a career in Engineering.

### Computer Science, North Carolina State University

2016-2019

#### Graduate Teaching Assistant

Assisted Professors in teaching Operating Systems, Database Management Systems and Automated learning and Data Analysis courses.

**Digital Libraries Initiative**

Summer 2017

**Pentair Fellow**

Created MOOC on DATACAMP in partnership with Digital Libraries Initiatives at NCSU.

**Software Developer**

2014-2016

**Venture Garden Group, Nigeria**

Led team in android and IOS mobile apps architecture design and development. Established the company's Data Science Team.

**Software Developer**

2013-2014

**Computer Warehouse Group, Nigeria**

Supported banking software systems.

## SKILLS & INTERESTS

- **Machine Learning & AI:** Linear Models, Mixed Effects, Random Forest, Clustering, Deep Learning (CNN, LSTM), Natural Language Processing (GloVe, SpaCy), Learning Language Models (ChatGPT, Llama2, Codellama)
- **Programming & Visualization:** Python (pandas, NumPy, SciPy, scikit-learn, TensorFlow, Keras), R, SAS, VA, NodeJS, Android, Shiny, Python (matplotlib), R (ggplot2, reshape2), Tableau, Infographics, Gephi, LATEX

## SELECTED PUBLICATIONS

- Joe Nyangon, **Ruth Akintunde** (2024) [Principal component analysis of day-ahead electricity price forecasting in CAISO and its implications for highly integrated renewable energy markets](#)
- **Ruth Okoilu-Akintunde**, Ally Limke, Tiffany Barnes, Sarah Heckman, and Collin Lynch (2021) PEDI - Piazza Explorer Dashboard for Intervention
- **Ruth Okoilu-Akintunde**, Preya Shabrina, Veronica Catete, Tiffany Barnes, Collin Lynch and Teomara Rutherford (2020) Data-informed Curriculum Sequences for a Curriculum-Integrated Game
- Preya Shabrina, **Ruth Okoilu-Akintunde**, Tiffany Barnes, Collin Lynch and Teomara Rutherford (2020) Peeking through the Classroom Window: A Detailed Data-Driven Analysis on the Usage of a Curriculum Integrated Math Game in Authentic Classrooms
- Niki Gitinabard, **Ruth Okoilu Akintunde**, Yiqiao Xu, Sarah Heckman, Tiffany Barnes and Collin Lynch (2020) Student Teamwork on Programming Projects. What can GitHub logs show us?