

## John Bagiliko

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## Education

NOV 2021 - PRESENT

**University of Rwanda, Rwanda** - *PhD. by Research in Mathematics*

SEPT 2017 - FEB 2019

**African Institute for Mathematical Sciences, Senegal** - *MSc. Mathematical Sciences*

SEPT 2013 - JUN 2017

**University for Development Studies, Ghana** - *BSc. Mathematical Sciences*

## Awards and Scholarships

- AIMS - Carnegie Scholarship, Carnegie Corporation of New York, 2021 - *I was one of the few awardees, out of hundreds of applicants for this prestigious scholarship. My Ph.D. program is fully funded*
- First Runner-Up, Zindi Hackathon, 2019 - *I was a key player of a 3-member team out of over 100 participants to place second in a machine learning hackathon in Kigali, Rwanda. We received an amount of 1000 USD*
- Google Grant, Google, 2019 - *I received a Google grant worth 750 USD to present a poster on my research at the Deep Learning Indaba 2019, Nairobi, Kenya*
- Country-Level Winner (Ghana), DataHack4FI Season 3, 2019 - *I was a proud data enthusiast of the country-level first-prize winning team of the DataHack4FI Season 3 Innovation Award. My team received 5000 USD*
- Microsoft Award, Ghana Data Science Summit - *I was the third-best poster presenter at the IndabaX Ghana, 2019 poster presentations. I received 25 USD*
- Next Einstein Full Initiative Scholarship, 2017 - *I was one of the few awardees, out of thousands of applicants on the African continent, of this prestigious scholarship. My master's program was fully funded by the scholarship*

## Industry Experience

MAY 2021 - October 2021

**ICRISAT, Mali** - *Data Science Research Scholar*

November 2020 - April 2021

**Pee Series Services, Ghana** - *Writer, Editor and Publisher*

MAY 2020 - OCT 2020

**Superfluid Labs, Ghana** - *Data Scientist and Software Engineering Consultant*

October 2019 - April 2020

**Timothy Kotin Consulting, Ghana** - *Data Scientist and Software Engineering Consultant*

March 2019 - September 2019

**Volkeno, Senegal** - *Data Scientist and Software Developer*

May 2018 - November 2018

**Volkeno, Senegal** - *Data Science and Software Development Intern*

## Talks

April 22, 2022

**Validation of Satellite Rainfall Products for Ghanaian Agriculture** - Foundational Methods in Data Science Training School - *Kigali, Rwanda*

February 13, 2022

**Reducing Rainfed Smallholder Field Delineation Costs with Satellite Imagery using Deep Learning** - Data Science and Applications Seminar, *virtual*

February 13, 2022

**Field Delineation with Satellite Data** - The Tech Demystify, *virtual*

March 15, 2021

**Future of AI** - GirlsInAI Global Hackathon, *virtual*

July 29, 2020

**Overview of Regression** - Achiever's Gathering, *virtual*

June 27, 2020

**A Walk-through of Machine Learning Starter Notebook** - Umoja Hack Ghana 2020, *virtual*

June 15, 2019

**Introduction to SQL**- Practical Data Community Meetup, *MEST Africa, Accra, Ghana*

April 17, 2019

**AI, ML, Data Science**- e-nnovate 2019, *Regional Maritime University, Accra, Ghana*

## Academic Events

June 6, 2022 - June 10, 2022

**Seminar** - Research Seminar in Data Science, *virtual*

May 16, 2022 - May 20, 2022

**Workshop** - Climatic Data Analysis, *Accra, Ghana* | I tutored

April 29, 2022 - Present

**Bi-Weekly Seminar** - Data Science Frontier Seminar, *virtual*

March 30, 2022 - April 1, 2022

**Workshop** - Theory to Practice Workshop, *Kigali, Rwanda*

March 30, 2022 - April 1, 2022

**Research Colloquium** - Chaos Theory: Determinism and Randomness in Nature and Mathematics, *Kigali, Rwanda*

March 7, 2022 - April 1, 2022

**Workshop** - Foundational Methods in Data Science Training School , Kigali, Rwanda | I presented a talk

February 21, 2022 - February 25, 2022

**Workshop** - The Analysis of Climatic Data, virtual

October 21, 2021

**Seminar** - Understanding Neural Networks through Gaussian Processes, and Vice Versa, *virtual*

December 7, 2021

**Weekly Seminar** - Data Science and Applications Seminar, *virtual* | I presented a talk

June 28, 2020 - July 10, 2020

**Summer School** - Machine Learning Summer School (MLSS 2020), *virtual* | I presented a poster

August 25, 2019 - August 30, 2019

**Workshop and Conference** - Deep Learning Indaba 2019, *Nairobi, Kenya* | I presented a poster

October 21, 2019 - October 25, 2019

**Workshop and Conference** - Data Science Africa 2019, *Accra, Ghana*

April 25, 2019 - April 27, 2019

**Workshop and Conference** - Ghana Data Science Summit 2019, *Accra, Ghana* | I presented a poster

## Organizations

May 16, 2022 - May 20, 2022

**Workshop** - Climatic Data Analysis | Co-organized by AMI Ghana and IDEMS International | Accessed by the general public | Accra Ghana

July 16, 2021 - July 17, 2021

**Conference** - IndabaX Ghana 2021 | Co-organized by the IndabaX Ghana team and sponsored by Deep Learning Indaba, Google , and Zindi Africa | Accessed by the general public | virtual

December 13, 2020

**Conference** - NeurIPS 2020 Ghana Local Meetup | Co-organized by AI Ghana, Ghana NLP, Academic City University College Ghana | Accessed by the general public | virtual

June 27, 2020

**Machine Learning Hackathon** - Umoja Hack Ghana | Co-organized by AI Ghana and sponsored by Zindi Africa, and Google | Accessed by Ghanaian university students, *Ghana* | virtual

April 24, 2020 - June 19, 2021

**Webinar** - AI Ghana Weekend Webinar Series | Co-organized by AI Ghana and sponsored by Zindi Africa | Accessed by the general public | virtual

## Research Visits

May 11, 2022 - Present

**AMI Ghana** - Community interest company | Accra, Ghana | Host: Francis Feehi Torgbor, PhD | Purpose: 1. To assist in the preparation and facilitating of a training workshop at the Ghana Meteorological Agency (GMet) between 16th May to 20th May. 2. To assist and finalize a paper I am co-authoring with my supervisor.

## Skills

- Programming languages - Python, R, Javascript, SQL
- Soft skills - Autonomy, Problem solving skills, Critical thinking, good communication
- Languages - English, French, Twi, Dagaare

## Publications

1. Bagiliko, J., Kaninda MUSUMBU, & Saliou Diouf. (2019). Extraction and Systematic Synthesis of Textual Information by Contextualization and Enrichment: Applications of Automated Reasoning in the Cognitive Sciences. *IJRDO - Journal of Mathematics (ISSN: 2455-9210)*, 5(7), 01-08. Retrieved from <http://www.ijrdo.org/index.php/m/article/view/3004>
2. Stewart, O., Banifatemi, A., Forslund, M., Adekanmbi, O., Akinsande, O., Oluwaseun, H., Oladosu, H., Oyewusi, W. F., Mtambalike, J. R., Mohemadali, E., Kotin, T., Kotin, W., Odei, E., Bagiliko, J., and Chklovski, T. (2020). Problem and solution documentation template for machine learning competitions to enhance explainability, reproducibility, and collaboration between stakeholders. *In Challenges in Machine Learning (CiML) workshop, 4th Conference on Neural Information Processing Systems (NeurIPS 2020)*
3. Stewart, O., Banifatemi, A., Forslund, M., Adekanmbi, O., Akinsande, O., Oluwaseun, H., Oladosu, H., Oyewusi, W. F., Mtambalike, J. R., Mohemadali, E., Kotin, T., Kotin, W., Odei, E., Bagiliko, J., and Chklovski, T. (2020). Federated Grassroots Community Model for Catalyzing Artificial Intelligence for Common Good. *In Challenges in Machine Learning (CiML) workshop, 4th Conference on Neural Information Processing Systems (NeurIPS 2020)*