

# DANIEL NKEMELU

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## EDUCATION

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**Georgia Institute of Technology, GA** Expected 2023  
Ph.D. in Human-Centred Computing  
Advisors: Prof. Mike Best & Prof. Irfan Essa

**Carnegie Mellon University Africa** May 2019  
M.S. in Electrical and Computer Engineering

**University of Ibadan, Nigeria** Dec 2016  
B.S. in Computer Science  
**Overall Best Graduating Student**

## RELEVANT COURSEWORK

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Social Computing, Natural Language Processing for Social Interaction, Human-Centred Computing, Deep Learning, Machine Learning, Applied Stochastic Processes, Research Methods in Engineering, Big Data Science, Data Structures and Algorithm for Engineers, Applied Computer Vision

## RESEARCH EXPERIENCE

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**Georgia Institute of Technology** Aug 2019 - Present  
*Graduate Research Assistant* Atlanta, GA  
Exploring human-centred ways of developing context-aware machine learning tools for preserving online integrity in the Global South. Ongoing system deployment in Myanmar.

**IBM Research Africa** Sep 2018 - Dec 2018  
*Research Intern* Nairobi, KE  
Used machine learning and data mining techniques to identify novel ways for efficient utilization of high performance computing resources in the exploration of effective malaria policy interventions in low-resourced contexts. Presented demonstration at NeurIPS 2018.

## SELECTED AWARDS

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AI4D-IndabaX grant for work on COVID-19 Misinformation in Nigeria, \$5000 - 2020

CRA Underrepresented Minorities and Persons with Disabilities Grad Cohort Workshop - 2020

MasterCard Foundation Scholarship, Masters Program, Carnegie Mellon University, 2017 - 2019

MasterCard Foundation Scholarship, Sciences Po (Paris Institute of Political Studies) Summer School in Public Economics, Paris, France; 2018

Overall Best Graduating Student, University of Ibadan, Nigeria; CGPA: 7.0/7.0, 2016

Etisalat Merit Award for Academic Excellence, 2016

Most Outstanding Person - Academic, University of Ibadan Fifteen Outstanding Persons Award, Junior Chamber International, 2016

Overall Best Graduating National Diploma Student, Yaba College of Technology, Nigeria; CGPA: 3.8/4.0, 2013

## RESEARCH

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### Conference Proceedings

Aug 2020

Irish I, Finkelberg R., **Nkemelu, D.**, Gujrania S., Padiyath A., Raman S., Tailor C., Arriaga R., Starner T. (2020) PARQR: Automatic Post Suggestion in the Piazza Online Forum to Support Degree Seeking Online Masters Students. In Proceedings of the Seventh (2020) ACM Conference on **Learning@Scale**.

### Demonstration

Dec 2018

Bent, O., Remy, S., Bore, N., **Nkemelu, D.**, Ogega, V., Weldemariam, K. and Roberts S. (2018) A Machine Learning Environment to Determine Novel Malaria Policies. The Thirty-second Annual Conference on Neural Information Processing Systems (**NeurIPS '18**), Montreal, Canada.

### Workshop Papers & Posters

Dec 2018

**Nkemelu, D.**, Omeiza, D., Lubalo, N. (2018) Deep Convolutional Neural Network for Plant Seedlings Classification. 2nd Black in AI Workshop @ The Thirty-second Annual Conference on Neural Information Processing Systems (**NeurIPS '18**), Montreal, Canada.

## ONGOING RESEARCH

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Human-AI Collaboration for Tackling Hate and Dangerous Speech in Myanmar  
with Michael Best, Irfan Essa, Harshil Shah

Policy v Identity Politics Online: The Case of Ghana 2020 Elections  
with Michael Best, Irfan Essa

### Other Collaboration

Characterizing Health Misinformation in Nigeria - funded by AI4D-IndabaX  
with Ezinne Nwankwo, Ofure Ebhomielen

Mentor-Mentee Matching to Improve Representation in AI - funded by Black in AI  
with Rediet Abebe, Moses Namara

## CERTIFICATES

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Summer Program in Public Economics, Sciences Po - Paris Institute of Political Studies, France, 2018  
National Diploma in Computer Science, Yaba College of Technology, Nigeria, 2013

## SERVICE

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Reviewer - Practical ML for Developing Countries Workshop @ ICLR 2020

Co-Organizer - Black in AI Workshop @ NeurIPS 2018, 2019

Co-Organizer - Black in AI Mentoring Program w/ Rediet Abebe and Moses Namara, 2019, 2020

Reviewer / Member - MasterCard Foundation Scholars Research Fund Sub-Committee, 2018