

CURRICULUM VITAE

PERSONAL DATA

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Country of Origin: Nigeria
Present Nationality: Nigeria

RESEARCH INTEREST

I am currently a 3rd-year PhD student of Computing Science, University of Aberdeen. I am researching to *investigate a real-time computational mechanism that can scaffold collaboration within online learning groups*. I have deeply explored literature to identify indicators of group collaboration, from their joint problem-solving (JPS) discourse, and how existing work have quantified it. We studied face-to-face group JPS to establish findings from literature and conceived a metric model for group collaboration.

We formalized our collaboration-metric model and extrapolated to study online groups' text-based interaction; measure of collaboration from our model was validated in comparison with qualitative assessment of the groups' discourse transcript; we found that our model could stand in-proxy as a basis to measure collaboration within text-based online JPS.

To support and maximize collaboration when group collaboration online, the main goal of my PhD, we propose in our current study, *a real-time mirroring of participation level*. We conceive that this approach will stimulate participation and improve group collaboration, our findings shows that collaborative behavior could be triggerd with *mirror of relative self-efficacy within groups*, in-line with our conjecture.

In further/current studies, we aim to investigating *knowledge level and propensity to participate*, how does these affects interaction during JPS? We hypothesize that these features can inform *group formation algorithm* that will automatically select learners to a group where individuals will participate optimally and thus facilitate maximu collaboration. We will investigate interventions that works best with evidence of improving collaboration, and develop multi-support, real-time and automatic support framework to scaffold collaboration within online groups. We envisiage application of the inferences and addition to knowledge from our work in *Mass open online course* (MOOCs) and distant learning programs.

EDUCATION

MSc (Computer Systems) | AVGA 60.3 | *University of Ibadan, Nigeria*. | **01/2011 to 10/2012**.

B.Sc (Computer Science) | 2:1 | *Achievers University Owo, Nigeria*. | **01/2013 to 12/2016**.

P.gD (Physics with Electronics) | CGPA 3.0/5.0| *Federal University of Technology Akure, Nigeria*. | **09/2010 to 08/2010**.

HND (Physics with Electronics) | CGPA 2.65/5.0 | *The Polytechnic, Ibadan, Nigeria.* | 04/2002 to 03/2004.

ND (Science Laboratory Technology) | CGPA 2.56/5.0 | *The Polytechnic Ibadan, Nigeria.* 04/1997 to 05/2000.

WORK HISTORY:

Job Title, Instructor, Physics Department, The Polytechnic, Ibadan, **01/10/2006 and 31/01/2017.**

- Teaching courses in computing and electronics.
 - Designing practical lecture modules, conducting and demonstrating in practical classes.
 - Accessing and making assignments, examination scripts and grading students.
 - Supervising design and implementation of students' technical projects.
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TRAINING AND PROFESSIONAL DEVELOPMENT

- **Summer School on Computation Interaction**, Cambridge University, August 2018.
 - **Young Researcher Track and Team Tutoring workshop**, Artificial Intelligence in Education AIED 2018 Conference.
 - User Modelling, Adaptation and Personalization Conference, 2017.
 - **Programming Skills:** Web Development with PHP, HTML, Javascript, Bootstrapping, SQL database, Python programing for data extraction and analysis.
 - **Getting going with your doctorate (Year 1- 6 months)**, University of Aberdeen, 25, May 2017.
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PROFESSIONAL MEMBERSHIP

- Member Association of Computing Machinery (ACM).
Membership Number: 8978220
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PUBLICATIONS

- Adetunji A., Akande A, (2014). *A proposed Architectural model for an Automatic adaptive E-learning system Based on users Learning Style.* (IJACSA) international journal of advanced computer science and application, 5(4)
- Adetunji A., Fantola O., Akande A., Adesina, F., Kolawole, T., & Ashim O., (2015). *Fuzzy inference system model for evaluation Computer- Supported Collaborative Learning (CSCL) system.* Proceedings of International Conference In Modelling, Identification and Control (ICMIC), (1-6) IEEE.
- Adetunji, A. (2017, July). *Adaptive support for group formation in computer supported collaborative learning.* In Adjunct Publication of the 25th Conference on User Modeling, Adaptation and Personalization (pp. 109-110). ACM.
- Adeniran, A. (2018, June). *Investigating Feedback Support to Enhance Collaboration Within Groups in Computer Supported Collaborative Learning.* In International Conference on Artificial Intelligence in Education (pp. 487-492). Springer, Cham.
- Adetunji, A., Masthoff, J., & Beacham, N. (2018, January). *Analyzing Groups' Problem-solving Process to Characterize Collaboration within Groups.* In CEUR Workshop Proceedings (Vol. 2153, pp. 5-16).

- Adeniran, A., Masthoff, J., & Beacham, N. (2019, June). Model-Based Characterization of Text Discourse Content to Evaluate Online Group Collaboration. In International Conference on Artificial Intelligence in Education (pp. 3-8). Springer, Cham.
 - Adetunji Adeniran, Judith Masthoff and Nigel Beacham (2019) draft: *An Appraisal of a Collaborative-Metric Model based on Text Discourse*. Accepted for presentation at AIED Team Tutorin Workshop 2019, to be published@ceur-ws.org.
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REFEREES

- **Prof. Judith Masthoff**
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