Mr. Simon Ntumi

Department of Educational Foundations
University of Education, Winneba

ORCID 0000-0001-7874-4454 · Google Scholar scholar.google.com/citations?user=VYHktCUAAAAJ&hl=en · Profile uew.peerford.com/staff/ae2ad045-c397-4054-85c3-4cd65c90a4c3

RESEARCH

Interests	Statistical Models · Validation · Assessment · AI · Systematic Review and Meta-analysis
Areas	Education · Clinical Psychology · Social Psychology · General Health Professions · Information Systems · Management Science and Operations Research

RESEARCH SUMMARY

56	398	10	11	16.83	64%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 56 publications listed below, 2016–2026. Field-weighted impact is the mean over the 47 works scored for it; 1.00 is the world average for works of the same field, type and year. 30 of the 47 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer 2021–present
Department of Educational Foundations, University of Education Winneba, Winneba, Ghana

PUBLICATIONS

Journal articles 56

1. **Simon Ntumi** (2026). Advancing SDG 4 through inclusive assessment in Ghana's basic education. *Humanities and Social Sciences Communications*. https://doi.org/10.1057/s41599-026-08020-2
2. **Simon Ntumi**, Omar Allohibi (2026). Cross-cultural validation and measurement invariance of PROMIS® anxiety and depression scales in Ghana and Saudi Arabia using item response theory (IRT). *Advances in Patient-Reported Outcomes*. https://doi.org/10.1016/j.apro.2026.100346
3. **Simon Ntumi**, GO Amfo (2026). Cross-cultural validation and measurement invariance of the EORTC QLQ-C30 in African oncology populations. *Measurement and Evaluations in Cancer Care*. https://www.sciencedirect.com/science/article/pii/S2949877526000043
4. **Simon Ntumi**, Sheilla Agbenyo, Joana Ashardey Ashilley, Vida Ami Misiame, Richlove Lydia Kuagbela (2026). Cultural norms, moral reasoning and student decision-making in multicultural higher education classrooms. *Humanities and Social Sciences Communications*. https://doi.org/10.1057/s41599-026-08241-5
5. **Simon Ntumi**, Michael Subbey, Toluwatope Laryea, Betty Donkor, Diana Adjei-Fianko, Louis Amangoah (2026). Culturally Responsive Teacher-Child Interactions and Differentiated Assessment in Multilingual Early Childhood Classrooms in Ghana: Pathways to Equity and Inclusion. *Early Childhood Education Journal*. https://doi.org/10.1007/s10643-026-02216-6
6. **Simon Ntumi**, Abraham Yeboah, Eric Appiah-Twumasi, Divine Agbovor, Gabriel Odame Amfo, Munkaila Seibu, Sheilla Agbenyo (2026). Culturally responsive and equity-driven differentiated STEM pedagogy and assessment in diverse classrooms in Ghana. *Humanities and Social Sciences Communications*. https://doi.org/10.1057/s41599-026-09129-0
7. **Simon Ntumi**, Saba Nixon Adzifome, Theophilus Nyamekye, Foster Kwame Vedor (2026). Culturally responsive assessment in mathematical word problems and numerical cognition in multilingual education.

Scientific Reports. https://doi.org/10.1038/s41598-026-35864-0

8. **Simon Ntumi** (2026). Depression, anxiety and cognitive performance in community-dwelling older adults: A measurement-based approach. *Geriatric Nursing Asia*. https://doi.org/10.1016/j.ymgna.2026.100005
9. **Simon Ntumi**, Nixon Saba Adzifome, Marian Nyarko, Divine Agbovor, Enock Gmalinsan Kwasi (2026). Development and psychometric evaluation of a multidimensional social and emotional learning scale in multilingual Ghanaian basic school classrooms. *Social and Emotional Learning Research Practice and Policy*. https://doi.org/10.1016/j.sel.2026.100209
10. **Simon Ntumi**, Stephen Kwakye Apau, Patricia Mawusi Amos, Theresa Antwi, Gabriel Odame Amfo, Gideon Edudzi Gbenyo (2026). Emotional Intelligence, Self-Regulation, and Psychological Resilience as Predictors of Anxiety Symptoms among University Students in Ghana. *Journal of Affective Disorders Reports*. https://www.sciencedirect.com/science/article/pii/S2666915326001009
11. **Simon Ntumi**, Lawrence Larbi Sakyi, Tapela Bulala, Divine Agbovor, Gabriel Odame Amfo, John Gabla, Rudi Anakwa, Emmanuel Ohene Amezah (2026). Enhancing Measurement Precision of Patient-Reported Outcomes Using Item Response Theory. *INQUIRY The Journal of Health Care Organization Provision and Financing*. https://doi.org/10.1177/00469580261441163
12. Kweku Esia-Donkoh, **Simon Ntumi**, Abdul Mumuni Adams (2026). Exploring the Nexus Between Transformational Leadership and Tutor Job Satisfaction for Curriculum Implementation. *Journal of Education Management and Leadership (JEML)*. https://doi.org/10.51317/jeml.v5i1.942
13. Theresa Antwi, Patricia Mawusi Amos, **Simon Ntumi**, John Gabla, Sarah Vivian Davis Chintoh (2026). Fostering psychological safety in classroom assessments: moderated-mediation effects of bullying, gender and counselling. *Scientific Reports*. https://doi.org/10.1038/s41598-026-54762-z
14. **Simon Ntumi**, Daniel Miezah (2026). From Playground to Psychiatry: Examining the Predictive Validity of Childhood Behavioral Assessments for Adult Mental Health Outcomes. *Child Psychiatry & Human Development*. https://doi.org/10.1007/s10578-026-01984-x
15. **Simon Ntumi**, Martha-Pearl Okai, Pearl Nana Yaa Adubea Hammond (2026). Language-based assessment of depression and anxiety among university students: Development and psychometric validation of a screening instrument. *Language and Health*. https://www.sciencedirect.com/science/article/pii/S2949903826000266
16. **Simon Ntumi** (2026). Measurement invariance and differential item functioning in cancer quality-of-life scales across cultural contexts in Ghana. *Measurement and Evaluations in Cancer Care*. https://doi.org/10.1016/j.ymecc.2026.100031
17. **Simon Ntumi**, Marian Nyarko, Gabriel Odame Amfo, Lawrence Larbi Sakyi, Emmannuel Ohene Amezah, Rudi Anakwa, John Gabla, Divine Agbovor (2026). Measuring emotional regulation and stress heterogeneity among Cancer patients: Linking latent class profiles to treatment adherence. *Measurement and Evaluations in Cancer Care*. https://doi.org/10.1016/j.ymecc.2026.100038
18. **Simon Ntumi**, Pearl Nana Yaa Adubea Hammond, Martha-Pearl Okai, Toluwatope Laryea, Annette Asieduwaa Owusu (2026). Measuring language impairment, health and well-being among children with autism spectrum disorder in Ghana: An integrated assessment model. *Language and Health*. https://doi.org/10.1016/j.laheal.2026.100097
19. **Simon Ntumi**, Daniel Gyapong Nimo, Christina Ammah, Betty Donkor, Sheilla Agbenyo, Harriet Delali Deku, Seth Sunu (2026). Mental health and depression as mediators between social media use screen time and academic integrity among tertiary students in Ghana. *Scientific Reports*. https://doi.org/10.1038/s41598-026-40285-0
20. Daniel Miezah, Emmanuel Affum-Osei, Keziah Yankey Miezah, **Simon Ntumi**, Peter Adu, Francis Annor, Emmanuel Dziwornu, Victoria Akuorkor Acquaye, Emmanuel Nyaaba (2026). Psychometric properties of the 7-item game addiction scale among Ghanaian university students. *Discover Psychology*. https://doi.org/10.1007/s44202-026-00872-8
21. **Simon Ntumi**, Tapela Bulala (2026). RETRACTED ARTICLE: Academic integrity under scrutiny: a cross-country investigation into examination malpractice and plagiaristic behavior among pre-tertiary students in Ghana and Botswana. *International Journal for Educational Integrity*. Retracted. https://doi.org/10.1007/

s40979-025-00190-x

22. **Simon Ntumi** (2026). Reconceptualizing Educational Assessment Integrity for Sustainable Development: A Multilevel Validity Modeling Approach. *Applied Measurement in Education*. https://doi.org/10.1080/08957347.2026.2703774

23. **Simon Ntumi**, Abraham Yeboah, Edmund Boye, Ayisha Fuseini, Solomon Debrah, Demos Gyambiby, Eugenia Gyamfua (2026). SDG 5 scorecards: using multi-dimensional assessment tools to track national progress on gender equality in education and social change in Ghana. *SN Social Sciences*. https://doi.org/10.1007/s43545-026-01755-4

24. **Simon Ntumi**, Roger Amoako, Peter Eshun, Stephen Kwakye Apau (2026). STEM curriculum reform in rural Sub-Saharan Africa: evaluating teacher training and classroom assessment practices in underserved schools in Ghana. *Humanities and Social Sciences Communications*. https://doi.org/10.1057/s41599-026-07327-4

25. **Simon Ntumi**, Samuel Asare Amoah, Selete Kwasikuma, Daniel Amissah (2026). Shaping dissertation success and assessment competency in Ghanaian graduate programs. *SN Social Sciences*. https://doi.org/10.1007/s43545-026-01756-3

26. **Simon Ntumi**, Abraham Yeboah, Stephen Kwakye Apau (2026). Teachers' moral dilemmas and professional ethics in high-stakes examination regimes in Ghana. *Discover Education*. https://doi.org/10.1007/s44217-026-01854-7

27. **Simon Ntumi**, Alfred Alunga Anovunga, Lawrence Larbi Sakyi, Sheilla Agbenyo, Perpetual Abiaw (2026). Teaching demands, mindfulness, and assessment workload as predictors of burnout among college of education lecturers: a mediation-moderation analysis. *Scientific Reports*. https://doi.org/10.1038/s41598-026-49815-2

28. **Simon Ntumi** (2026). The Psychology of Fair Assessment: Mindfulness, Mental Health, and Grading Bias Among Senior High School Teachers in Ghana. *Brain and Behavior*. https://doi.org/10.1002/brb3.71779

29. Daniel William Essel, Frank Quansah, **Simon Ntumi**, Frank Henry Bonsi, Lawrence Sakyi Larbi, Abdul-Razak Ishaaq (2026). Uncovering Heterogeneity in the Measurement of Psychological Well-Being in Non-Western Culture: A Latent Profile Analysis of Ghanaian Undergraduates. *Brain and Behavior*. https://doi.org/10.1002/brb3.71216

30. Daniel Gyapong Nimo, **Simon Ntumi**, Seth Sunu, Theresa Dede Lawer, Dorothy Akuffo Boateng, Kofi Afriyie (2025). A Scoping Review of Teacher Preparation and Licensing Systems: A Comparative Analysis of Canadian Benchmarking Standards and Ghanaian Practices. *American Journal of Educational Research*. https://doi.org/10.12691/education-13-4-7

31. **Simon Ntumi**[1], Kodzo Courage Kwaku, Kofi Agyemang, Benjamin Nyarko (2025). Assessing what matters: integrating social-emotional learning into classroom assessment for pupil well-being in Ghanaian basic schools. *Scientific Reports*. https://doi.org/10.1038/s41598-025-33328-5

32. **Simon Ntumi**, Joshua-Luther Ndoye Upoalkpajor, Daniel Gyapong Nimo (2025). Culturally responsive assessment of help-seeking behavior among university students: a mediation-moderation analysis of cultural norms, mental health stigma, and digital engagement across cross-cultural contexts. *BMC Psychology*. https://doi.org/10.1186/s40359-025-03256-0

33. Tapela Bulala, **Simon Ntumi** (2025). Evaluating gender gaps in STEM achievement in African secondary schools: a quantile regression and mediation analysis approach. *Frontiers in Education*. https://doi.org/10.3389/feduc.2025.1607412

34. **Simon Ntumi** (2025). From Resilience to Self-Efficacy: Cross-Cultural Mediation Effects of Emotion Regulation and Perceived Social Support in Adolescents. *PsyCh Journal*. https://doi.org/10.1002/pchj.70070

35. **Simon Ntumi** (2025). Item Response Theory Analysis of a Work Ethic Scale: Evidence From Multi-Industry Samples in West Africa. *International Journal of Selection and Assessment*. https://doi.org/10.1111/ijsa.70023

36. **Simon Ntumi**, Tapela Bulala, Abraham Yeboah, Divine Agbovor (2025). Measuring the Immeasurable: Designing and Validating Assessments of Spiritual Intelligence as a Core Component of SEL in Faith-Based

School Contexts in Ghana and Botswana. *Psychology in the Schools*. https://doi.org/10.1002/pits.70090

37. **Simon Ntumi**, Tapela Bulala (2025). Multilevel Psychometric Analysis of Clinician Burnout Using Bayesian G-Theory and IRT Fusion Models. *INQUIRY The Journal of Health Care Organization Provision and Financing*. https://doi.org/10.1177/00469580251371389
38. **Simon Ntumi** (2025). Using hierarchical multiple regression to model the impact of AI-powered adaptive testing on student academic fortunes and test anxiety in the Ghanaian context. *Discover Education*. https://doi.org/10.1007/s44217-025-00524-4
39. **Simon Ntumi** (2025). Validating high-fidelity simulation for assessing procedural skills in nursing education: a kane framework approach in Ghana. *BMC Medical Education*. https://doi.org/10.1186/s12909-025-07724-4
40. **Simon Ntumi** (2024). Estimating Effect Sizes, Heterogeneity Parameters and Weighted Standard Deviation (WSD) of Postgraduate Theses using Meta-Analytic and Systematic Review Methods. *American Journal of Applied Mathematics and Statistics*. https://doi.org/10.12691/ajams-12-3-2
41. **S Ntumi**, Daniel Gyapong Nimo (2024). Teacher's professional values (objectivity, honesty, integrity and self-control): Validating the mediating role of ethnical perception using confirmatory factor analysis (CFA). *Open Science Journal*. https://osjournal.org/ojs/index.php/OSJ/article/view/3377
42. **S Ntumi**, Daniel Gyapong Nimo (2024). Validating scales for measuring the influence of social responsibility behavior and organizational culture on employee performance in the Ghanaian context. *Open Science Journal*. http://www.osjournal.org/ojs/index.php/OSJ/article/view/3378
43. Frank Quansah, Francis Ankomah, Edmond Kwesi Agormedah, **Simon Ntumi**, John Elvis Hagan, Medina Srem-Sai, Kevin Dadaczynski, Orkan Okan, Thomas Schack (2023). A cross-sectional study of university students' pocket money variance and its relationship with digital health literacy and subjective well-being in Ghana. *Health Science Reports*. https://doi.org/10.1002/hsr2.1095
44. **Simon Ntumi**, Sheilla Agbenyo, Tapela Bulala (2023). Estimating the Psychometric Properties (Item Difficulty, Discrimination and Reliability Indices) of Test Items using Kuder-Richardson Approach (KR-20). *Shanlax International Journal of Education*. https://doi.org/10.34293/education.v11i3.6081
45. **Simon Ntumi**, Sheilla Agbenyo, Alex Tetteh, Clarke Ebow Yalley, Abraham Yeboah, Daniel Gyapong Nimo (2023). Teacher preparedness and Implementation of the National Pre-Tertiary Education curriculum Framework in Ghana. *Journal of Educational Research and Practice*. https://doi.org/10.5590/jerap.2023.13.1.18
46. **Simon Ntumi** (2023). Using Principal Components Regression (PCR) to Predict the Nexus between Institutional Training and Development Programs and Employer Performance in Private Universities in Ghana. *Shanlax International Journal of Education*. https://doi.org/10.34293/education.v12i1.6835
47. **Simon Ntumi**, Kwesi Twum Antwi-Agyakwa (2022). A Systematic Review of Reporting of Psychometric Properties in Educational Research. *Mediterranean Journal of Social & Behavioral Research*. https://doi.org/10.30935/mjosbr/11912
48. **S Ntumi**, PK Effrim (2022). Beyond Standardized Regression Coefficients Beta Weights: Interpreting and Applying Multiple Linear Regression in Educational Research. *Al-Hikmah Journal of Arts & Social Sciences Education*. https://scholar.google.com/scholar?cluster=6861526360040659230&hl=en&oi=scholarr
49. Andrews COBBINAH, **Simon NTUMI** (2022). Difficulty, Discrimination and Pseudo - Guessing Indices of West African Examinations Council Core Mathematics Multiple Choice Items: Theoretical and Practical Implications of Using Item Response Theory. *Journal of Research in Educational Sciences*. https://doi.org/10.14505/jres.v13.15.06
50. **Simon Ntumi** (2022). Parallelism of Test Items: Estimating the Means (μ), Variances (σ2) and Covariances (Cσ 2) of Alternate Test Forms. *International Journal of Data Envelopment Analysis and *Operations Research**.
51. **Simon Ntumi**, Sheilla Agbenyo, Tapela Bulala (2022). Towards Understanding Test Score Pollution in Ghana: Test Preparation Practices, Test Administration Situations and External Factors as Predictors. *Mediterranean Journal of Social & Behavioral Research*. https://doi.org/10.30935/mjosbr/12323
52. **Simon NTUMI** (2021). Reporting and Interpreting Multivariate Analysis of Variance (MANOVA): Adopting

the Best Practices in Educational Research. *Journal of Research in Educational Sciences*. https://doi.org/10.14505/jres.v12.14.05

53. **Simon NTUMI** (2021). Reporting and Interpreting One-Way Analysis of Variance (ANOVA) Using a Data-Driven Example: A Practical Guide for Social Science Researchers. *Journal of Research in Educational Sciences*. https://doi.org/10.14505/jres.v12.14.04

54. **Simon Ntumi** (2016). Challenges Pre-School Teachers Face in the Implementation of the Early Childhood Curriculum in the Cape Coast Metropolis. *Journal of Education and Practice*. https://eric.ed.gov/?id=EJ1089727

55. **Simon Ntumi**, Felix Larbi (2016). Effects of single parenting on student's academic performance: A case study at Amamoma Presbyterian junior high school.

56. **Simon Ntumi**, Esther Quarcoo (2016). The influence of clothing in the negotiation of identities. A study between students and lecturers.