

Richard M. Wambua



1.1 Personal Profile

1.1.1 Personal Details

Name: Richard M. Wambua

Title/Qualification: Doctor

Department: Educational Psychology

Designation/Position: Lecturer

Email: wambua.richard@ku.ac.ke

Contact Address: P.O. Box 43844 - 00100

Nairobi, Kenya

Area of Specialization:

- Educational Statistics & Evaluation
- Research Methods in Education and Psychology
- Research Data Management

Research Interests:

- Computer-based Assessment
- Quality of Education
- Calibration of Educational and Psychological Assessment Tools
- Gender in Education and Technology

ORCID ID: <https://orcid.org/0000-0002-3699-3396>

1.1.2 Academic & Professional Qualifications

PhD (Educational Psychology) Kenyatta University, Nairobi, Kenya.

Title of Thesis. *"Effect of Computer Attitude and Test Anxiety on the Reliability of Computer Based Science Test in Nairobi City County, Kenya".*

Master of Education (Educational Psychology): Kenyatta University, Nairobi, Kenya.

Title of Thesis: *"Validation of a Selection and Classification Model: A Case Study of the Faculty of Education, Kenyatta University."*

Bachelor of Education (Technology): Moi University, Eldoret, Kenya

Teaching Subjects: Mechanical Technology & Engineering Drawing

1.1.3 Employment History

January 2022 – Present – Lecturer, Kenyatta University

September 2016 – December 2020 – Tutorial Fellow, Kenyatta University

September 2013 – July 2014 Data Management Specialist, UNESCO International Institute for Education Planning (IIEP)

August 2009 – July 2013 Principal Research Officer, Kenya National Examinations Council

September 2007 – May 2008 Assistant Lecturer, Aga Khan University - Institute for Educational Development (Eastern Africa)

April 2002 – August 2007 Senior Lecturer: Kenya Technical Teachers College

1994 – 2000 Graduate Teacher, Teachers Service Commission

1.1.4 Achievements at the University

- Innovative use of a social media application as a teaching and learning tool
- Participation in Review of the School of Education Strategic Plan
- Supervision and assessment of PGDE student research projects
- Student academic and psychosocial mentorship

1.2 Publications

1.2.1 Referred Journals

- Wambua, R., Mwaura, P., & Dinga, J. (2023). Psychometric Properties of a Test Anxiety Tool for Use in Computer-based Testing in Kenya. *International Journal of Assessment and Evaluation*. 31(1), 1-18. <https://doi.org/10.18848/2327-7920/CGP/v31i01/1-18>
- Wambua, R. (2023). Test Anxiety and Gender as Determinants of Performance in a Computer-Based Test among Kenyatta University Students. *International Journal of Assessment and Evaluation*. 30(1), 1-13. doi.org/10.18848/2327-7920/CGP (Journal)
- Wambua, R., Ngumbao, R. (2013). Utilization of Examination Feedback Reports in Kenyan Secondary Schools. *Journal of Educational Assessment in Africa*. 2013, 110 – 118
- Makau, D.M., Wambua R.M., & Mwambura S.N. (2012). Academic Achievement Profiles of Primary Teacher Education (PTE) Candidates with Special Needs. *Journal of Educational Assessment in Africa*. 7, 292 - 298
- Wambua, R., & Ogle, A.M. (2011). Effective Government-University Partnerships: Reflections of Kenya's National Assessment Centre. *Journal of the World Universities Forum*, 4(1), 53 – 63.
- Wasanga, P.M., Ogle, A.M., Wambua, R.M. (2010). *Report on Monitoring of Learner Achievement for Class 3 in Literacy and Numeracy*. Nairobi: Kenya National Examinations Council.
- Wambua, R. (2008). The Role of Higher Education in Regional Integration: The Case of Universities in East Africa. *Journal of the World Universities Forum*, 1(2), 67 - 73.
- Wambua, R. (2008). Computer Based Assessment: Scope and Possibilities for Teacher Development in East Africa. *The African Symposium*. 8(1), 55 – 62.
- Wambua, R. (2008). Efficiency in the Selection of Students in Kenyan Public Universities. *The International Journal of Learning*, 15(10), 183 – 190.
- Wambua, R. (2008). Perceptions of Pre-service Technical Teachers Concerning the Teaching Profession in Kenya. *Eastern Africa Journal of Humanities and Sciences*, 8(1), 35 - 52.
- Wambua R. (2007) The Making of an Engineer: Background Characteristics of Female Engineering Students in Kenyan National Polytechnics. *The International Journal of Learning*, 14(2), 31-39

1.2.3 Conference/Workshops/Seminar Papers

1.2.3.1 Conference Papers

- Wambua, R. & Byegon, F.C. (2019). *Impact of a Social Media Teaching Tool on the Learning of Educational Statistics at the Kenyatta University*. Paper presented at the Kenyatta University Biennial Research and Innovation Conference, Nairobi, Kenya, 23rd – 25th October 2019.
- Wambua, R. (2018). *Test Anxiety, Gender and Subject Specialization as determinants of performance in a computer-based test among Kenyatta University students*. Paper presented at the 5th International Conference on Education and Lifelong Learning, Nairobi, Kenya, 4th – 5th October
- Wambua, R., Ngumbao, R. (2013). *Utilization of Examination Feedback Reports in Kenyan Secondary Schools*. Paper presented at the 31st Association for Educational Assessment in Africa (AEAA). Arusha, Tanzania, 12th – 16th August.
- Wambua, R., Bundu, H., & Masila, C. (2010). *Local Independence of Test Items : Implications for Test item Construction, Selection, and Banking*. Paper presented at the ICTs and Item Selection and Banking in High Stake Examinations in Africa” Research Project Workshop Nairobi, 15th – 20th March.

1.2.3.2 Workshops Papers

- Wambua, R. (2019). *Technical Report on the Kenya Adult Literacy Survey Assessment Framework and Tools*. Paper presented at the KALS Dissemination workshop, Nairobi, Kenya, 7th June.

Wambua, R. (2014). *Improving Cooperation in Learning Assessment in Africa*. Paper presented at the AU EMIS Restricted Technical Workshop on the Second Decade of Education for Africa. Accra, Ghana, 7 – 9 April.

Wasanga, P.M., Ogle, A.M., Wambua, R.M. (2010). *National Assessment in Kenya*. Paper presented at the World Bank's Uses and Users of National Assessment Workshop, Cape Town, South Africa, 13th – 15th April.

1.2.3.3 Seminar Papers

Wambua, R., Bundu, H., & Masila, C. (2010). *Local Independence of Test Items : Implications for Test item Construction, Selection, and Banking*. Paper presented at the ICTs and Item Selection and Banking in High Stake Examinations in Africa” Research Project Workshop Nairobi, 15th – 20th March.

Wambua, R. (2005). *Mediating Critical Thinking in an ICT-Enriched Environment*. Paper presented at the Workshop for Teacher Training College ICT Coordinators. Kenya Technical Teachers College, Nairobi, 28th August – 3rd September 2005.

Wambua, R. (2003). *Validation of a Selection and Classification Model: A Case Study of the Faculty of Education, Kenyatta University*. Paper presented at the 11th Postgraduate Seminar, Kenyatta

University, Nairobi 13th – 16th October.

1.5 Conferences/Workshops/Seminars Attended

1.5.1 Conferences Attended

- Kenyatta University Biennial Research and Innovation Conference, Nairobi, Kenya. 23rd – 25th October 2019
- 5th International Annual Conference on Education and Lifelong Learning, October 2018

1.5.1 Workshops Attended

- Curriculum and Occupational Standards Development, Kenyatta University and Technical and Vocational Education and Training Authority (TVETA) 12th – 13th January 2023
- Updating of Staff Profiles and Websites , Kenyatta University, 4th March 2019
- Intermediate Rasch Analysis Workshop. University of Leeds, 15 – 17 September 2014
- Applied Measurement with jMetrik: University of Virginia (USA). 7th – 10th January 2014

1.5.1 Seminars Attended

- 43rd Postgraduate Seminar, Kenyatta University, Theme; *Repositioning Research and Education Beyond COVID 19*: Doctoral Thesis Presentation. 8th July 2022
- ISO 27001 Information Security Management Systems Training, 5th June 2018
- Digital content development seminar, 18th July 2018
- Kenya Cyber security & Ethical Hacking Seminar, 22-23 June 2017

1.7 Professional/Consultancy (Editor/Peer review in journals, Networks/Collaborations, External Examiner, Patents)

- Peer Reviewer, International Journal of Assessment and Evaluation
- National Expert for the Development of an assessment framework and tools for UNESCO and the DAE, Ministry of Education, Nov 2016 – June 2017
- Data Analyst for the ICT needs assessment Study for the Ministry of Education, July 2016 – June 2018
- Member of the Management Board, Malia Children's Home, Machako's County
- Member, the International Test Commission

2.0 National and International awards and Recognitions

Education Ministerial Recognition for the role of a Convener of the Education Quality Core Group in the End Decade EFA Assessment - 2011

2.1 Administrative Positions Held

2.1.1 Recognized university administrative positions

Member: School of Education Board of Postgraduate Studies

Member: School of Education Curriculum Committee

2.1.2 Other administrative positions Held

Patron, Kenyatta University Judo Club