

# OLASUNKANMI J. KEHINDE, Ph.D.

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## Curriculum Vitae

Website: <https://kehindejames.github.io/>

### 1. RESEARCH INTERESTS

- Psychometrics & Quantitative Methods
- Mathematical Psychology
- Educational & Psychological Testing
- Health & Positive Psychology

### 2. EDUCATION

- 04/24      **Ph.D. in Educational Psychology**  
Washington State University (WSU)- Pullman  
*Advisors:* Drs. Shenghai Dai & Brian French  
*Title of Dissertation:* Unveiling Learning Pathways: Psychometric Modeling of Learning Progression.
- 04/18      **Masters Degree in Mathematics & Statistics**  
University of Calgary- Calgary  
*Title of Thesis:* Statistical Analysis and Modeling of Poliomyelitis Among Infants.
- 06/16      **Masters Degree in Applied Mathematics**  
Washington State University- Pullman  
*Title of Thesis:* Mathematical Modeling of Immune Control of Equine Infectious Anemia Virus Infection
- 11/12      **B.Sc. in Mathematical Sciences**  
Federal University of Technology of Akure (FUTA)- Akure  
*Title of Thesis:* Epidemiological Modeling of Transmission of Poliovirus

### 3. PROFESSIONAL EXPERIENCE

- 08/24 – present      **Assistant Professor, Educational Psychology, Elizabeth City State University, Elizabeth City, NC**  
*Major Roles:* 1) Teach undergraduate and graduate courses in psychology and educational psychology; 2) supervise undergraduate and graduate students; 3) serve in department/university committees (e.g., outreach & recruitment committees, and Center for Teaching & Learning) and graduate student thesis committees; and 5) review and plan curriculum.
- 05/24 – 07/31      **Research Associate, Brody School of Medicine, East Carolina University, Greenville**  
*Major Projects:* Statistical & Psychometric Analyses Using Large-scale Assessment (e.g., NSCH) Pertaining to Patient Care, Population Health, Health Professions Education and Professional Development in Academic Medicine.

08/19 – 04/24	<p><b>Research Assistant</b>, Learning &amp; Performance Research Center (LPRC), Washington State University, Pullman</p> <p><i>Major Projects:</i> Statistical &amp; Psychometric Analyses, Large-scale Assessment (e.g., NAEP), &amp; Machine Learning.</p>
06/23-07/23	<p><b>Research Intern</b>, ETS National Assessment of Educational Progress (NAEP), Educational Testing Service (ETS)- Princeton, NJ</p> <p><i>Major Roles:</i> Conduct research on Technical Issues Associated with Transitioning Survey-based Assessments to an Adaptive Design- Literature synthesis, data management, coding and analysis, graphing, proposals, research report writing, and research presentations.</p>
08/24-Present	<p><b>Teaching Assistant</b>, Elizabeth City State University, Elizabeth City, NC</p> <p><i>Courses Taught:</i> General Psychology (PSY 212), Statistics and Research Designs (PSY 301), Psychological Tests and Measurement (PSY 311), and Learning and Cognition (PSY 450), Health Psychology (PSY 375), Psychology of Personality (PSY 330), Practicum in Psychology (PSY 480).</p> <p><i>Major Roles:</i> Assist the instructor in teaching some sections of the course, lead and teach the lab sessions of the course, solve and grade assignments, and hold office hours with students having challenges with the course, assist students in building conceptual understanding of the course to solve real-life problems, and guide students in their class project with advanced courses.</p>
09/16-04/18	<p><b>Teaching Assistant</b>, University of Calgary- Calgary, AB</p> <p><i>Courses Taught:</i> University Calculus II (MAT 267), Calculus for Engineers &amp; Scientists (MAT 275), Multivariate Calculus for Engineers &amp; Scientists (MAT 277), and Differential Equation III (MAT 605).</p> <p><i>Major Roles:</i> Assist the instructor in teaching some sections of the course, lead and teach the lab sessions of the course, solve and grade assignments, and hold office hours with students having challenges with the course, assist students in building conceptual understanding of the course to solve real-life problems, and guide students in their class project with advanced courses.</p>
08/14-06/16	<p><b>Teaching Assistant</b>, Washington State University- Pullman, WA</p> <p><i>Courses Taught:</i> University Calculus II (MAT 267), Calculus for Engineers &amp; Scientists (MAT 275), Multivariate Calculus for Engineers &amp; Scientists (MAT 277), Introduction to Statistical Methods for Social Sciences (STAT 212), and Differential Equation III (MAT 605).</p> <p><i>Major Roles:</i> Assist the instructor in teaching some sections of the course, lead and teach the lab sessions of the course, solve and grade assignments, and hold office hours to tutor students having challenges with the course, assist students to build conceptual understanding of the course to solve real-life problems.</p>

#### 4. PEER-REVIEWED PUBLICATIONS

- Hayes, C.R., **Kehinde, O.J.**, Tumin, D & Jamison, S.D. (2024). Medical Home Access Among Children with Obesity: The Role of Family-Centered Communication. *Childhood Obesity*.  
<https://www.liebertpub.com/doi/10.1089/chi.2024.0303>
- Ezech, C.C. & **Kehinde O.J.**, (2024). Promising Practices for Adapting Culturally Relevant Assessment: A Systematic Review. *Journal of Diaspora, Indigenous, Minority Education*.  
<https://doi.org/10.1080/15595692.2024.2341930>

- **Kehinde, O.J.**, Walls, J., Mayeaux, A. (2024). An Investigation of the Dimensions of Decisional Capital for Novice Teachers. *Journal of Professional Capital and Community*. <https://doi.org/10.1108/JPCC-10-2023-0067>
- Ezech, C. C., Adesope, O.O., & **Kehinde, O.J.** (2022). Effect of Flipped Instruction on College Students' Learning Outcomes in STEM Domains: Meta-analyses. *Journal of STEM Education: Innovations and Research*, 23(4).
- Dai, S., **Kehinde, O.J.**, Schmitter-Edgecombe, M., & French, B. (2022). Modeling daily fluctuations in everyday cognition and health behaviors at general and person-specific levels: A GIMME analysis. *Behaviormetrika*, 1-21. <https://doi.org/10.1007/s41237-022-00191-x>
- **Kehinde, O.**, Dai, S., & French, B. (2022). Item Parameter Estimations for Multidimensional Graded Response Model under Complex Structures. In *Frontiers in Education* (p. 597). Frontiers. <https://doi.org/10.3389/feduc.2022.947581>
- Hunsu, N. J., **Kehinde, O. J.**, Oje, A. V., & Yli-Piipari, S. (2022). Single Versus Multiple Resilience Factors: An Investigation of the Dimensionality of the Academic Resilience Scale. *Journal of Psychoeducational Assessment*, 40(3), 346-359. <https://doi.org/10.1177/07342829211056391>
- Dai, S., Vo, T. T., **Kehinde, O. J.**, He, H., Xue, Y., Demir, C., & Wang, X. (2021). Performance of polytomous IRT models with rating scale data: An investigation over sample size, instrument length, and missing data. In *Frontiers in Education* (p. 372). Frontiers. <https://doi.org/10.3389/feduc.2021.721963>

## 5. MANUSCRIPTS IN PROGRESS

- Peine, B., ..., **Kehinde O.J.**, Tumin, D., ..., & Akhter, S.A. (Revised & Submit). Clinical Value of Pre-CABG Myocardial Viability Assessment by Magnetic Resonance Imaging in Patients with Ischemic Cardiomyopathy. *The Annals of Thoracic Surgery. Journal of Surgical Research*.
- Peine, B., ..., **Kehinde O.J.**, Tumin, D., ..., & Akhter, S.A. (Revised & Submit). Clinical and Financial Impact of Cardiothoracic Fellow in Coronary Artery Bypass Grafting Surgery.
- **Kehinde, O.J.**, Tumin, D., Akpan, U., & Naylor, M. (Revised & Submit). Risk and causes of early mortality among extremely preterm infants born small for gestational age. *American Journal of Perinatology*.
- **Kehinde, O.J.**, Dai, S., & French, B.F. (Under Review). Application of Multilevel Modeling in Large-scale Assessments: A Systematic Review. *Journal of Psychoeducational Assessment*
- Walls, J., **Kehinde, O.J.**, Mayeaux, A., Comeaux, A. (Under Review). The Mediating Role of Decisional Capital on the Relationship between Professional Community and Efficacy for Novice Teachers. *International Journal of Educational Management*.
- **Kehinde, O.J.**, Wu, M., Brown, T., & Davey, T. (In progress). Comparing IRT Calibration Approaches for MST with Subscales
- Mojinyinola, M.O., **Kehinde, O.J.**, & Geraldo Padilla (In progress). Assessing the Comparability of High-Stakes Test Scores Under Equating and Nonequating Strategies.
- **Kehinde, O.J.**, Dai, S., & French, B.F. (In Progress). Application of text mining for the motivational-developmental assessment for university students.
- Demir, Cihan, **Kehinde, O.J.**, Dai, S., & French, B.F. (In Progress). Automated Content Scoring for Motivational-Developmental Assessment.

## 6. SOFTWARE PACKAGE

- Dai, S., **Kehinde, O.J.**, French, B.F., Schmitter-Edgecombe, M. (2020). ROCpsych: Compute and compare diagnostic test statistics across groups. (R package version 1.3) [Computer software]. <https://CRAN.R-project.org/package=ROCpsych>.

*Description:* Computing classification statistics (sensitivity, specificity, etc.) from confusion matrices with adjustment for various base rates or known prevalence, computing optimal cut-off scores with different criteria, and displaying and comparing classification statistics and area under the receiver operating characteristic (ROC) curves or AUC across consecutive categories for ordinal variables.

## 7. CONFERENCE PRESENTATIONS

- **Kehinde, O.J.,** Dai, S., French, B. (Accepted). The impact of Q-matrix on Item Parameter and Attribute Profile Estimations in Transitional Diagnostic Classification Models [Paper Presentation]. National Council on Measurement in Education Annual Meeting, Denver, CO, United States.
- **Kehinde, O.J.,** Tang, J.H (Accepted). Exploring African American Students' Educational Resources and Achievement in Mathematics Cognitive Domains in TIMSS 2019 [Paper Presentation]. 2025 American Educational Research Association Annual Meeting, Denver, CO, United States.
- **Kehinde, O.J.,** Mojinyinola, M.O., Walls, J., Mayeaux, A.S (Accepted). Examining the Psychometric Properties of Decisional Capital Instrument for Novice Teachers: Using Multidimensional Graded Response Model [Paper Presentation]. 2025 American Educational Research Association Annual Meeting, Denver, CO, United States.
- **Kehinde, O.J** (2024, April 10-14). Evaluation of Learning Progression Across Cognitive Domains: Using TIMSS Data [Paper Presentation]. American Educational Research Association Annual Meeting, Philadelphia, PA, United States.
- **Kehinde, O.J.,** Walls, J., Mayeaux, A., Comeaux, A. (2024, April 10-14). The Mediating Role of Decisional Capital on the Relationship between Professional Community and Efficacy for Novice Teachers [Poster Presentation]. American Educational Research Association Annual Meeting, Philadelphia, PA, United States.
- **Kehinde, O.J.,** Dai, S., French, B. (2023, April 12-15). The impact of Q-matrix on classification accuracy and reliability in longitudinal diagnostic classification models [Poster Presentation]. National Council on Measurement in Education Annual Meeting, Chicago, IL, United States.
- **Kehinde, O.J.,** Walls, J., & Mayeaux, A. (2023, April 13-16). An Investigation of the Dimensions of Decisional Capital for Novice Teachers [Paper Presentation]. American Educational Research Association Annual Meeting, Chicago, IL, United States.
- **Kehinde, O.J.,** Dai, S., French, B. (2022, April 21-24). Item parameter estimation for multidimensional graded response model under complex structure [Poster Presentation]. National Council on Measurement in Education Annual Meeting, San Diego, CA, United States.
- Hunsu, N., **Kehinde, O.J.,** & Oje, A. (2022, April 22-25). Single vs. Multiple Resilience Scale: An Investigation of the Dimensionality of the Academic Resilience Scale [Poster Presentation]. American Educational Research Association Annual Meeting, San Diego, CA, United States.
- **Kehinde, O.J.,** Dai, S., & French, B.F. (2021, August 12-14) Application of text mining for the motivational-developmental assessment for university students [Poster Presentation]. American Psychological Association (Virtual) Annual Convention.
- **Kehinde, O.J.,** Dai, S., & French, B.F. (2021, May 18 – June 11) Application of multilevel modeling in large-scale assessments: A systematic review [Paper Presentation]. National Council on Measurement in Education (Virtual) Annual Meeting.
- Ezech, C. C., Adesope, O.O., & **Kehinde, O.J.** Meta-analyses of Flipped Classroom in STEM [Paper Presentation]. American Educational Research Association (Virtual) Annual Meeting.

- Demir, C., Vo, T., French, B.F., **Kehinde, O.J.**, & Hand, B. (2020, August). Critical Thinking Profiles across Korean, Turkish, and US students [Poster Presentation]. American Psychological Association Annual Meeting, Washington D.C. (Virtual Conference).
- Vo, T.T., Demir, C., French, B.F., **Kehinde, O.**, & Austin, B., (2020, August). Latent risk profiles across middle and high school students [Poster Presentation]. American Psychological Association Annual Meeting, Washington D.C. (Virtual Conference).
- **Kehinde, O.J** & Schmitter-Edgecombe, M. (2020, May). Ecological Momentary Assessment of Lifestyle and Cognitive Performance [Poster Presentation]. WSU Abstract Showcase Presentation, Pullman, WA, USA.
- **Kehinde, O.J.** (2017, June). Statistical Modeling of Transmission and Sensitivity Analysis of Poliomyelitis among Infants [Paper Presentation]. PIMS-Young Research Conference, Saskatoon, Canada.
- **Kehinde, O.J.**, Dillon, R.H. (2015, May). Sensitivity Analysis of Immune Control of Equine Infectious Anemia Virus Infection (EIAV) [Poster Presentation]. WSU Abstract Showcase Presentation, Pullman, WA, USA.

## 8. PROFESSIONAL TRAINING/WORKSHOPS (RESEARCH-RELATED)

- 11/24 2024 OpenMX Master Class-Online, Virginia Institute for Psychiatric and Behavioral Genetics (VIPBG), Virginia Commonwealth University.
- 10/24 Introduction to Grant Writing, by Hanover Research & ECSU
- 06/23 Structural Equational Modeling Methods for Longitudinal Data (by Dr. Gregory Hancock ), WSU Learning and Performance Research Center (LPRC) Methods Workshop, on Zoom, June 2023.
- 06/22 An Introduction to Machine Learning for The Social Sciences (by Dr. Tracy Sweet), WSU Learning and Performance Research Center (LPRC) Methods Workshop, on Zoom, June 2022.
- 01/21 Natural Language Processing (NLP) in Assessment Workshop, sponsored by National Board of Medical Examiners (NBME), Philadelphia, PA.
- 01/20 Kamiak Performance Computing Training, sponsored by Washington State University, Pullman, WA.
- 02/20 The NAEP Database Training Seminar, sponsored by the National Center for Education Statistics (NCES), Institute of Education Sciences (IES), and U.S. Department of Education, Washington, DC, 2020.

## 9. GRANTS AWARDS

- **Kehinde, O. J.** (2024). A Pilot Study of Assessing Motivational-Developmental Assessment for Freshmen Undergraduate Students at ECSU (**\$10000**)

## 10. GRANTS Submitted

- Adedeji, A.V., Adedeji, D., **Kehinde, O. J.** (2024). Developing and Testing Innovations (DTI): Albemarle Semiconductor Microelectronics Informal Learning Experience (A-SMILE) (**\$1,299,951**)

## 11. AWARDS/HONORS

07/23	Educational Testing Services (ETS) Internship Award (\$10000), Princeton, NJ
03/23	2023 NCME Pipeline Initiative Travel Funding (\$1500), 2023 NCME Annual Meeting, Chicago, IL
03/23	Annual Meeting Graduate Student Assistance Fund (\$500), 2023 AERA Annual Meeting, Chicago, IL
04/23	College of Education Alumni Association Scholarship (\$2000), WSU, WA
05/22	Huie-Rogers Graduate Research Fellowship (\$4000), WSU, WA
04/22	Marilyn Berney Endowed Graduate Fellowship (\$2000), WSU, WA
12/21	Chan Zuckerberg Initiative Fellowship (\$3000), NCME 2022 Annual Meeting, San Diego, CA
04/21	Leroy C. Olsen Scholarship (\$2000), WSU, WA
04/20	WSU College of Education Scholarship (\$2000), WSU, WA
02/20	Chan Zuckerberg Initiative Fellowship (\$3000), NCME 2021 Annual Meeting, USA
02/20	National Assessment Educational Progress (\$3000) Data Training Workshop, Arlington, VA
11/12	Bronze Medal Award. National Mathematics Competition for Nigerian Students, Abuja, Nigeria

## **12. COMMUNITY INVOLVEMENT**

2024	NCME Conference Paper Peer-Reviewer
2023-2024	AERA Conference Paper Peer-Reviewer
08/22-05/23	Educational Psychology Students Representative at Graduate and Professional Student Association (GPSA) Senate, WSU, WA
08/21-05/22	Educational Psychology Students Representative at Graduate and Professional Student Association (GPSA) Senate, WSU, WA
2021	AERA Conference Paper Reviewer
08/21-12/21	WSU ROAR (Responsibility Opportunity Advocacy and Respect), WSU, WA
10/19	Instructor at STEM Family Night at Sunnyside Elementary School, Pullman, WA
05/17-06/17	Tutor for Calgary Bridge Foundation for Youth, Calgary, AB
10/16-04/17	Graduate Representative Association, University of Calgary, Calgary, AB

## **13. MEMBERSHIP IN PROFESSIONAL ORGANISATION**

2020- Present	National Council on Measurement in Education (NCME) SIGIMIE – Large-Scale Assessment
2020-Present	American Educational Research Association (AERA) Division D- Psychometric, Measurement, and Assessment SIG – Cognition and Assessment SIG – Large-Scale Assessment
2021-Present	American Psychological Association (APA)

## **14. COMPUTER SKILLS**

- Windows, Linux, and Mac OS
- SPSS, SAS, Mplus, R, MATLAB, SQL, Tableau, and STUIRT

