

Michael R. Peabody

EDUCATION

University of Kentucky

(2014) Ph.D., Educational Assessment, Evaluation, and Research

Dissertation: *Effects of item-level feedback on the ratings provided by judges in a modified-Angoff standard setting study*

(2011) Master of Science in Education, Higher Education

Thesis: *A Critical Analysis of the Identification and Treatment of First-Generation College Students: A Social Capital Approach.*

(2002) Bachelor of Arts, Classics

PROFESSIONAL EXPERIENCE

5/2023 – present **Lead Psychometrician**

IXL Learning

Curriculum & Assessment

San Mateo, CA

- Recruit, hire, and manage a team of psychometricians to develop and maintain cutting-edge, computer-adaptive tests for K–12 education, including universal screening and diagnostic assessments for math and ELA
- Work with company leaders to define the vision of IXL's assessment products
- Conduct validity research, document development processes, and create technical reports
- Collaborate with content experts to create and curate item pools
- Work with product managers to design students' test-taking experience and user-facing reports
- Create and maintain project schedules and workflows; communicate project goals and estimates to stakeholders
- Communicate technical psychometric concepts to all stakeholders, including non-technical audiences
- Collaborate with software engineers to develop an assessment infrastructure, including an item banking and delivery system.

10/2019 – 4/2023 Senior Manager | Senior Psychometrician

National Association of Boards of Pharmacy

Competency Assessment

Mt. Prospect, IL

Management

- Supervise a team of psychometricians who provide full-service psychometric services such as scoring, item analysis, equating, DIF, standard setting, and practice analyses.
- Act as the departmental project manager to ensure that all programs meet deadlines and deliverables.
- Participate in departmental strategic planning.
- Oversee individual learning plans for team members.

Research

- Created a Research Advisory Committee to assist with managing research requests and prioritizing the research agenda.
- Work with IT to improve data architecture in order to stand-up a research team.
- Transition data collection methods into a database for research access.
- Collaborate with University of Kentucky Department of Computer Science to prototype serious gaming for pharmacy continuing education.

Accomplishments

- Deprecated CPLEX automated test assembly platform and rewrote MIP algorithms for all exams in R.
- Transition of practice tests from home-grown test driver to web-based delivery.
- Pilot program to migrate from PDF reports to Shiny Dashboards for schools and state boards.

4/2017 – 10/2019 Senior Psychometrician

American Board of Family Medicine

Psychometric Services

Lexington, KY

- Provide full-spectrum psychometric services, such as maintaining item statistics for equating, scoring all examinations, and conducting item analyses.
- Manage all aspects of standard setting and DIF programs, including panelist recruitment, statistical analysis, and conducting training workshops.

- Oversee the development and creation of documentation related to exam administrations, standard setting, and DIF.
- Other duties include coordinating with other boards for shared exams, assisting in the creation of materials for the Examination Committee of the Board of Directors, exam validity research, and providing psychometric recommendations to the exam development department.

6/2013 – 4/2017 Psychometrician
American Board of Family Medicine
Psychometric Services Dept. *Lexington, KY*

1/2019 – present Assistant / Adjunct Professor
University of Kentucky
College of Education
Department of Educational Policy Studies and Evaluation
Lexington, KY

4/2016 – 2021 Assistant Professor / Voluntary Faculty
University of Kentucky
Department of Family & Community Medicine *Lexington, KY*

11/2012 – 6/2013 Institutional Research Specialist
Kentucky Community and Technical College System
Office of Research and Policy Analysis *Lexington, KY*

9/2011 – 11/2012 SACS Accreditation Team
University of Kentucky
Office of the Vice President for Institutional Effectiveness *Lexington, KY*

PRIMARY RESEARCH INTERESTS

- Rasch measurement models
- Psychometric methods
- Computerized-adaptive and multi-stage adaptive testing
- Individualized learning and assessment
- Integration of AI / machine learning and assessment models with a focus on natural language processing and large language models

PUBLICATIONS (refereed)

- Qiu, C., **Peabody, M.R.**, & Bradley, K.D. (2024). Exploring construct measures using Rasch models and discretization methods to analyze existing continuous data. *Measurement: Interdisciplinary Research & Perspectives*, 22(1), 108-120. [[PDF](#)]
- Peabody, M.R.**, Muckle, T.J., & Meng, Y. (2023). Applying a Mixture Rasch Model-based approach to Standard Setting. *Educational Measurement: Issues & Practice*. 42(3), 5-12. [[PDF](#)]
- Peabody, M.R.** (2023). Comparison of software platforms for ATA with mixed integer linear programming [software review]. *Measurement: Interdisciplinary Research & Perspectives*, 21(1), 55-61. [[PDF](#)]
- Peabody, M.R.** (2020). Practical Issues in Linking and Equating with Small Samples [guest editor introduction]. *Applied Measurement in Education*, 33(1), 1-2. [[PDF](#)]
- Peabody, M.R.** (2020). Some methods and evaluation for linking and equating with small samples. *Applied Measurement in Education*, 33(1), 3-9. [[PDF](#)]
- O'Neill, T.R., Gregg, J., & **Peabody, M.R.** (2020). Effects of Small Samples Equating Using the Dichotomous Rasch Model. *Applied Measurement in Education*, 33(1), 10-23. [[PDF](#)]
- Peabody, M.R.** & van der Vleuten, Cees (2019). Assessment in Medical Education [guest editor introduction]. *Journal of Applied Testing Technology*, 20(S2), 1. [[PDF](#)]
- Wu, R., Wu, X., **Peabody, M.R.**, & O'Neill, T.R. (2019). A Longitudinal Study on the Differences in Canadian and US Medical Student Preparation for Family Medicine. *Family Medicine*, 51(10), 817-822. [[PDF](#)]
- O'Neill, T.R. Peabody, M.R., Puffer, J.C., Brady J. (2019) Validating the Test Plan Specifications for the ABFM's Certification Examination. *Journal of the American Board of Family Medicine*. 32(6), 876-882. [[PDF](#)]
- Peabody, M.R.**, Dai, M., Turner, K., Peterson, L.E., & Mainous III, A.G. (2019). Prevalence of and Factors Related to Family Physicians' Providing E-Visits. *Journal of the American Board of Family Medicine*. 32(6), 868-875. [[PDF](#)]

- Peabody, M.R.**, Peterson, L.E., Dai, M., Eden, A.R., Hansen, E., & Puffer, J.C. (2019). Motivation for Participation in a Specialty Board Certification Program. *Family Medicine*, 51(9), 728-736. [[PDF](#)]
- Jo, A., Mainous III, A.G., Larson, S., Carek, P.J., **Peabody, M.R.**, Peterson, L.E. (2019). Prevalence and Practice for Rare diseases in Primary Care: a national cross-sectional study in the United States. *BMJ Open*, 9(4), e027248. [[PDF](#)]
- Phillips, J.P., Peterson, L.E., Iris Kovar-Gough, I. O'Neill, T.R., **Peabody, M.R.**, Phillips Jr, R.L. (2019) Family Medicine Residents' Debt and Certification Examination Performance. *PRiMER*, 3(7). [[PDF](#)]
- Peabody, M.R.** & Wind, S.A. (2019) Exploring the Influence of Judge Proficiency on Standard-Setting Judgments. *Journal of Educational Measurement*, 56(1), 101-120. [[PDF](#)]
- Peabody, M.R.**, Young, A., Peterson, L.E., O'Neill, T.R., Pei, X., Arnhart, K., Chaudhry, H.J., & Puffer, J.C. (2019). Specialty Board Certification and Disciplinary Actions of Family Physicians. *Academic Medicine*, 94(6), 847-852. [[PDF](#)]
- Peabody, M.R.** & Wind, S.A. (2019). Exploring the stability of differential item functioning across administrations and critical values using the Rasch separate calibration *t*-test method. *Measurement: Interdisciplinary Research and Perspectives*, 17(2), 78-92. [[PDF](#)]
- Dai, M., **Peabody, M.R.**, Mainous III, A.G., & Peterson, L.E. (2018). Adherence to Clinical Guidelines for Monitoring Diabetes in Ambulatory Care Settings. *Family Medicine and Community Health*, 6(4), 161-167. [[PDF](#)]
- Peabody, M.R.**, Eden, A.R., Douglas, M., & Phillips Jr., R.L. (2018). Board certified family physician workforce: Progress in racial and ethnic diversity [Policy Brief]. *Journal of the American Board of Family Medicine*, 31(6), 842-843. [[PDF](#)]
- Wu, X., Wu, R., **Peabody, M.R.**, & O'Neill, T.R. (2018). Detecting Cross-Cultural Differential Item Functioning for Increasing Test Validity: An Example from the ABFM In-Training Examination. *Education in the Health Professions*, 1(1), 19-23. [[PDF](#)]
- Jacobs, C.A., **Peabody, M.R.**, Duncan, S.T., Muchow, R.D., Nunley, R.M., the ANCHOR Group, & Clohisy, J.C., (2018). Development of the HOOS_{global} patient-reported

outcome measurement platform to assess patient-reported outcomes in hip preservation patients. *The American Journal of Sports Medicine*, 46(4), 940-946. [\[PDF\]](#)

Jacobs, C.A., **Peabody, M.R.**, Lattermann, C., Vega, J.F., Huston, L.J., Spindler, K.P., & the MOON Knee Group. (2018). Development of the KOOS_{global} platform to measure patient-reported outcomes after anterior cruciate ligament reconstruction. *The American Journal of Sports Medicine*, 46(12), 2915-2921. [\[PDF\]](#)

Peabody, M.R., O'Neill, T.R., Stelter, K.L., & Puffer, J.C. (2018). Frequency and Criticality of Diagnoses in Family Medicine Practices: From the National Ambulatory Medical Care Survey (NAMCS). *Journal of the American Board of Family Medicine*. 31(1), 126-138. [\[PDF\]](#)

Peabody, M.R., O'Neill, T.R., Eden, A.R. & Puffer, J.C. (2017). The Single Graduate Medical Education (GME) Accreditation System Will Change the Future of the Family Medicine Workforce. *Journal of the American Board of Family Medicine*. 30(6), 838-842. [\[PDF\]](#)

Puffer, J.C., **Peabody, M.R.**, & O'Neill, T.R. (2017). Policy Brief: Recent Trends in the Performance of Graduating Residents on the ABFM Certification Examination. *Journal of the American Board of Family Medicine*, 30(5), 570-571. [\[PDF\]](#)

Eiff, M.P., Hollander-Rodriguez, J., Skariah, J., Young, R., Waller, E., Dexter, E., O'Neill, T.R., **Peabody, M.R.**, Green, L.A., & Carney, P.A. (2017). Scope of Practice Among Recent Family Medicine Residency Graduates. *Family Medicine*, 49(8), 607-618. [\[PDF\]](#)

Rassolian, M., Peterson, L.E., Fang, B., Knight Jr, C.K., **Peabody, M.R.**, Baxley, E.G., & Mainous III, A.G. (2017). Workplace Factors Associated with Burnout of Family Physicians. *JAMA Internal Medicine*, 177(7), 1036-1038. [\[PDF\]](#)

O'Neill, T.R., & **Peabody, M.R.** (2017). The Impact of One versus Two Content-Specific Modules on the American Board of Family Medicine's Certification Examination Scores. *Journal of the American Board of Family Medicine*, 30(1), 85-90. [\[PDF\]](#)

Peabody, M.R., O'Neill, T.R., & Peterson, L.E. (2017). Examining the functioning and reliability of the Family Medicine Milestones. *Journal of Graduate Medical Education*, 9(1), 46-53. [\[PDF\]](#)

- Peabody, M.R.** (2016). Exploration of Baseball “Ability” with FACETS. *Rasch Measurement Transactions*, 30(2), 1582-1584. [[PDF](#)]
- Bradley, K.D., **Peabody, M.R.**, & Mensah R.K. (2016). Applying the Many-Faceted Rasch Measurement Model to Explore Reviewer Ratings of Conference Proposals. *Journal of Applied Measurement*, 17(3), 283-292. [[PDF](#)]
- O’Neill, T.R., **Peabody, M.R.**, & Song, H. (2016). The Predictive Validity of NBOME's COMLEX-USA with regard to Outcomes on ABFM Examinations. *Academic Medicine*, 91(11), 1568-1575. [[PDF](#)]
- O’Neill, T.R., **Peabody, M.R.**, & Puffer, J.C. (2016). Differences in Canadian and US Medical Student Preparation for Family Medicine. *Family Medicine*, 48(10), 770-774. [[PDF](#)]
- Peabody, M.R.**, Bradley, K.D., & Custer, M. (2016). Assessing the validity of a continuum-of-care survey: A Rasch measurement approach. *Journal of Applied Measurement*, 17(1), 1-13. [[PDF](#)]
- Peabody, M.R.**, O’Neill, T.R., & Peterson, L.E. (2015). Illustrating the Psychometric Construct of Family Medicine on the American Board of Family Medicine’s examinations. *Rasch Measurement Transactions*, 29(2), 1516-1518. [[PDF](#)]
- O’Neill, T.R., Sun, L., **Peabody, M.R.**, & Royal, K.D. (2015). The Impact of Repeated Exposure to Items. *Teaching and Learning in Medicine*, 27(4), 404-409. [[PDF](#)]
- Bradley, K.D., **Peabody, M.R.**, Akers, K.S., & Knutson, N.M. (2015). Rating Scales in Survey Research: Using the Rasch model to illustrate the middle category measurement flaw. *Survey Practice*, 8(1), 1-12. [[PDF](#)]
- Peabody, M.R.**, O’Neill, T.R., & Puffer, J.C. (2015). Performance on the Maintenance of Certification for Family Physicians (MC-FP) Examination: Comparison of Initial Certifiers with Experienced Physicians. *Journal of the American Board of Family Medicine*, 28(2), 294-295. [[PDF](#)]
- O’Neill, T.R., Li, Z., **Peabody, M.R.**, Lybarger, M., Royal, K.D., & Puffer, J.C. (2015). The Predictive Validity of ABFM's In-Training Examination. *Family Medicine*, 47(5), 349-356. [[PDF](#)]

- Peterson, L.E, Blackburn, B., **Peabody, M.R.**, & O'Neill, T.R. (2015). Family Physicians' Scope of Practice and American Board of Family Medicine Recertification Examination Performance. *Journal of the American Board of Family Medicine*, 28(2), 265-270. [[PDF](#)]
- Bradley, K.D., **Peabody, M.R.**, & Sampson, S.O. (2015). Quality Control in Survey Design: Evaluating a Rating Scale of Educators' Attitudes Concerning Differentiated Compensation. *International Journal of Assessment Tools in Education*, 2(1), 3-21. [[PDF](#)]
- O'Neill, T.R., **Peabody, M.R.**, Blackburn, B., & Peterson, L.E. (2014). Creating the Individual Scope of Practice (I-SOP) Scale. *Journal of Applied Measurement*, 15(3), 227-239. [[PDF](#)]
- O'Neill, T.R., **Peabody, M.R.**, Jin Bee Tan, R., & Du, Y. (2013). How much item drift is too much? *Rasch Measurement Transactions*, 27(3), 1423-1424. [[PDF](#)]
- Peabody, M.** (2013). A Critical Analysis of the identification and treatment of first-generation college students: A Social Capital approach. *Kentucky Journal of Higher Education Policy and Practice*, 2(1). [[PDF](#)]
- Hutchens, K., Deffendall, M., & **Peabody, M.** (2011). Supporting First Generation College Students, *Kentucky Journal of Higher Education Policy and Practice*, 1(1). [[PDF](#)]

PUBLICATIONS (non-refereed)

- Peabody, M.R.** (2021, August 12). Pharmacists, Here's how we develop the exams you take. [Blogpost]. Retrieved from: <https://nabp.pharmacy/news/blog/pharmacists-heres-how-we-develop-the-exams-you-take/>
- Peabody, M.R.** (2021, June 7). The Science Behind the Score: The New NAPLEX Candidate Performance Report [Blog post]. Retrieved from: <https://nabp.pharmacy/news/blog/the-science-behind-the-new-naplex-candidate-performance-report/>
- Peabody, M.R.** (2021, April 9). A Brief Primer on Test Validity Theory [Blog post]. Retrieved from: <https://nabp.pharmacy/news/blog/a-brief-primer-on-test-validity-theory/>

Peabody, M.R. (2020, November 20). Rigorous process to set exam passing standard shows it's more than just a number [Blog post]. Retrieved from: <https://nabp.pharmacy/news/blog/rigorous-process-to-set-exam-passing-standard-shows-its-more-than-just-a-number/>

Peabody, M.R., O'Neill, T.R., & Puffer, J.C. (2017). Response to Medical student career choice; comparing the social accountability of Canadian and American medical schools [Editorial Reply]. *Family Medicine*, 49(4), 314. [PDF]

Peabody, M.R. (2016, January 21). Criterion-referenced method for Hall of Fame voting [Blog post]. *Fangraph: Baseball Statistics and Analysis*. Retrieved from: <https://www.fangraphs.com/community/a-criterion-referenced-method-for-hall-of-fame-voting/>

Peabody, M.R., O'Neill, T.R., & Puffer, J.C. (2015). Response: Re: Who performs better on the MC-FP Exam: Initial Certifiers or Experienced Physicians? [Editorial Reply]. *Journal of the American Board of Family Medicine*, 28(4), 537. [PDF]

O'Neill, T.R., **Peabody, M.R.**, Stelter, K.L., Hagen, M.D. (2015). *Assessing the Need for an External Searchable Resource on the American Board of Family Medicine's MC-FP Examination*. Lexington, KY: American Board of Family Medicine. Retrieved from ERIC database (ED557719). [PDF]

O'Neill, T.R., **Peabody, M.R.**, & Puffer, J.C. (2013). The ABFM Begins to Use Differential Item Functioning. *The Annals of Family Medicine*, 11(6), 578-579. [PDF]

O'Neill, T.R., **Peabody, M.R.**, & Puffer, J.C. (2013). The ABFM Begins to Use Differential Item Functioning. *The Journal of the American Board of Family Medicine*, 26(6), 807-809. [PDF]

REVIEWS

Peabody, M. (2012). "Inside the College Gates: How Class and Culture Matter in Higher Education" (review). *Teachers College Record*: ID Number:16654. [PDF]

Peabody, M. (2011). "Recognizing and Serving Low-Income Students in Higher Education" (review). *Kentucky Journal of Higher Education Policy and Practice*, 1(1). [PDF]

PRESENTATIONS

- Peabody, M.R.**, Dwyer, A., Foley, B., Kaliski, P., & Muenzen, P. (2023). *Advancing Perspectives on Practice Analysis for Credentialing Examinations*. Panel session presentation at the annual conference of the National Council for Measurement in Education, Chicago, IL.
- Chiang, Y-C & **Peabody, M.R.** (2023). *An NLP Approach to Evaluating Content Representation and Dimensionality of Item Pools*. Presentation at the annual conference of the National Council for Measurement in Education, Chicago, IL.
- Chiang, Y-C & **Peabody, M.R.** (2023). *Exploring the effects of text-preprocessing methods in enemy item detection*. Presentation at the annual conference of the National Council for Measurement in Education, Chicago, IL.
- Peabody, M.R.**, Sampson, S.O., Bradley, K.D., Chadha, J., Hall, A.M., Garces, H., & Ayoob, A. (2023). *Investigating rater bias in Objective Structured Clinical Examinations under a Many-Facet Rasch model framework*. Presentation at the annual conference of the American Educational Research Association, Chicago, IL.
- Peabody, M.R.**, Davis-Becker, S., Lewis, D., & Chiang, Y-C. (2023). *Exploring Embedded Standard Setting for Certification and Licensure: Can we eliminate the traditional standard setting workshop and maintain validity?* Presentation at the annual meeting of the Association of Test Publishers, Dallas TX.
- Peabody, M.R., Garrity, M.** (2022). *Impact of Working in a Pharmacy during Pharmacy School on Licensure Exam Scores*. Presentation at the American Society of Health-System Pharmacists mid-year clinical meeting, Las Vegas, NV.
- Peabody, M.R.** (Aug 10, 2022). *Assessment Design & Development*, Invited Workshop for the Howard University College of Pharmacy Faculty Retreat, Washington, D.C. [Virtual].
- Peabody, M.R., Wang, T., & Bradley, K.D.** (June 16, 2022). *Introduction to R for Educational Research*, Workshop for the Professional Learning Series for the University of Kentucky College of Education, Lexington, KY.
- Peabody, M.R.**, Muckle, T.J., Meng, Y. (2022). *Leveraging Qualitative Data with Topic Models*. Presentation at the annual meeting of the Association of Test Publishers, Orlando, FL.

- Xiao, J. & **Peabody, M.R.** (2022). *An Empirical Study of Quantitative Methods for Detecting Cheating*. Presentation at the annual meeting of the National Council on Measurement in Education, San Diego, CA.
- Peabody, M.R.**, Saiar, A., & Bradley, K. (2021). *Tell me how you really feel about it: What's trending in recertification/renewal?* Presentation at the annual meeting of the Institute for Credentialing Excellence (ICE Exchange), Nashville, TN.
- Peabody, M.R.**, Betts, J. (2021). *The Saga of Technology-enhanced Items: From Origin to Vision*. Peas in a Pod discussion at the annual meeting of the Association of Test Publishers, San Diego, CA.
- Peabody, M.R.** (2021). *Comparison of software platforms for ATA with mixed integer linear programming*. In "Practical Issues in Automated Test Assembly" coordinated session at the annual meeting of the National Council on Measurement in Education, Baltimore, MD (Virtual).
- Peabody, M.R.**, & Muckle, T. (2021). *Applying a Mixture Rasch Model-based approach to Standard Setting*. Paper presented at the annual meeting of the National Council on Measurement in Education, Baltimore, MD (Virtual).
- Qiu, C. & **Peabody, M.R.** (2020). *Examining the usefulness of subscores under different blueprint classifications*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Francisco, CA (Virtual).
- Wu, R., Shen, L., Qiu, C. & **Peabody, M.R.** (2020). *Exploring non-traditional latent DIF variables for external characteristics using mixed Rasch*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Francisco, CA (Virtual).
- Furter, R., **Peabody, M.R.**, Qunbar, S. (2020). *Novel Solutions to Familiar Problems – Practical AI Applications in Assessment*. Presentation at the annual meeting of the Association of Test Publishers, San Diego, CA (Virtual).
- Jin, R., Bradley, K.D., & **Peabody, M.R.** (2019). *Examining Perception Change on a Financial Literacy Measure Post-Mortgage Crisis: A Rasch Measurement Perspective*. Paper presented at the annual meeting of the Mid-Western Educational Research Association, Cincinnati, OH.

- Peabody, M.R.**, Jones, A.T., Furter, R.T., & Shivraj, P. (2019). *Initial Certification and Continuing Certification - How do they differ?* Presentation at the annual conference of the American Board of Medical Specialties, Chicago, IL.
- Peabody, M.R.**, Phillips Jr, R.L., Shuemaker, J. (2019). *Quality Measures or Measuring Quality: Use of patient outcome data in board certification.* Presentation at the annual conference of the American Board of Medical Specialties, Chicago, IL.
- Peabody, M.R.** & Marroquin, C. (2019). *Board-to-Board: A Workshop on Member Board Collaboration.* Workshop at the annual conference of the American Board of Medical Specialties, Chicago, IL.
- Blackburn, J., Dai, M., **Peabody, M.R.**, & Peterson, L.E. (2019). *Association between physicians' medical knowledge and quality of care using PRIME Registry data.* Academy Health ARM 2019, Washington, DC.
- O'Neill, T.R. & **Peabody, M.R.** (2019). *Adapting the zone of proximal development for reporting exam results.* Symposium at the annual meeting of the American Educational Research Association, Toronto, Canada.
- Saiar, A., **Peabody, M.R.**, Bradley, K., & Looney, E.W. (2019). *A Survey of Recertification and Renewal Practices in Credentialing.* Presentation at the annual meeting of the Association of Test Publishers, Orlando, FL.
- Furter, R., **Peabody, M.R.**, Dwyer, A., & Jones, A. (2019). *Who, What, When, Where, and Why: The Five W's of Score Reporting.* Presentation at the annual meeting of the Association of Test Publishers, Orlando, FL.
- Peabody, M.R.**, Dai, M., Peterson, L.E., & Mainous III, A.G. (2018). *Prevalence of and Factors Related to Family Physicians' Providing E-Visits.* Paper presented at the annual meeting of the North American Primary Care Research Group (NAPCRG), Chicago, IL.
- Ara Jo, A., Larson, S., Carek, P., **Peabody, M.R.**, Peterson, L.E., & Mainous III, A.G. (2018). *Rare Diseases in Primary Care: Prevalence and Practice.* Paper presented at the annual meeting of the North American Primary Care Research Group (NAPCRG), Chicago, IL.

- Jones, A.J., **Peabody, M.R.**, & Raddatz, M. (2018). *Multiple Approaches to Studying Board Certification and Disciplinary Actions*. Presentation at the annual conference of the American Board of Medical Specialties (ABMS), Las Vegas, NV.
- Saiar, A., **Peabody, M.R.**, Bradley, K., & Looney, E.W. (2018). *Baby Come Back: A Survey of Recertification and Renewal Practices in Credentialing*. ICE Exchange, Austin, TX.
- Dai, M., **Peabody, M.R.**, Eden, A.R., & Peterson, L.E. (2018). *Motivation for Continuing Certification and Physician's Well-Being*. Poster presented at Academy Health's Annual Research Meeting, Seattle, WA.
- Peabody, M.R.**, Young, A., Peterson, L.E., O'Neill, T.R., Chaudhry, H.J., & Puffer, J.C. (2018). *The Relationship between Board Certification and Disciplinary Actions for Family Physicians*. Poster presented at Academy Health's Annual Research Meeting, Seattle, WA.
- Peabody, M.R.** (March 19, 2018). Testimony to the commission: ABMS Continuing Board Certification: Vision for the Future. Washington, DC.
- Wu, X., Wu, R., **Peabody, M.R.**, & O'Neill, T.R. (2018). *Increasing Test Validity by Examining for Cross-Cultural Differential Item Functioning (DIF)*. Poster presented at the International Objective Measurement Workshop, New York, NY.
- Wu, R., Wu, X., & **Peabody, M.R.** (2018). *Revisiting the Differences in Canadian and US Medical Student Preparation for Family Medicine*. Poster presented at the annual meeting of the American Educational Research Association, New York, NY.
- Peabody, M.R.**, O'Neill, T.R., & Gregg, J. (2018). *Effects of Small Samples Equating Using the Dichotomous Rasch Model*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
- Peabody, M.R.** (Jan 25, 2018). *Introduction to R*, Invited Workshop for the University of Kentucky Applied Psychometrics Laboratory, Lexington, KY.
- Jacobs, C.A., **Peabody, M.R.**, Duncan, S.T., Muchow, R.D., Nunley, R.M., Clohisy, J.C., The ANCHOR Group. (2017). *Development of the HOOSglobal patient-reported outcome measurement platform to assess outcomes after hip preservation procedures*. Poster presented at the annual meeting of the American Association of Hip and Knee Surgeons, Dallas, TX.

- Peabody, M.R.**, Jacobs, C.A., Duncan, S.T., Muchow, R.D., Nunley, R.M., Clohisy, J.C., The ANCHOR Group. (2017). *Development of the HOOS_{global} patient-reported outcome measure for hip preservation patients*. Paper presented at the 2017 meeting of the International Outcomes Measurement Conference, Chicago, IL.
- Phillips, J., Peterson, L.E., Kovar-Gough, I., O'Neill, T.R., **Peabody, M.R.**, & Phillips Jr., R.L. (2017). *Higher Educational Debt is Associated with Worse Certification Examination Performance Among Family Medicine Residents*. Paper presented at the annual meeting of the North American Primary Care Research Group, Montreal, Canada.
- O'Neill, T.R., **Peabody, M.R.**, & Eden, A.R. (2017). *The Design of the Continuous Knowledge Self-Assessment (CKSA)*. Presentation at the annual meeting of the American Board of Medical Specialties, Chicago, IL.
- Dai, M., **Peabody, M.R.**, Mainous III, A.G., & Peterson, L.E. (2017). *Adherence to Clinical Guidelines for Monitoring Diabetes in Ambulatory Care Settings*. Paper presented at Academy Health's Annual Research Meeting, New Orleans, LA.
*Best abstract in *Improving Safety, Quality, and Value*
- Liu, R. O'Neill, T.R., & **Peabody, M.R.** (2017). *Examining the Big-Fish-Little-Pond Effect in Family Medicine Residency*. Poster presented at the annual meeting of the American Educational Research Association, San Antonio, TX.
- Furter, R., Jones, A., **Peabody, M.R.** (2017). *Automating score reports and technical documentation using R: A beginner's guide*. Presentation at the annual meeting of the Association of Test Publishers, Scottsdale, AZ.
- Peabody, M.R.**, O'Neill, T.R., Peterson, L.E., Phillips, R.L, & Puffer, J.C. (2016). *American Board of Family Medicine certified family physician workforce by race/ethnicity*. Poster presented at Academy Health's Annual Research Meeting, Boston, MA.
- Grosso, L., Brossman, B., O'Neill, T.R., **Peabody, M.R.**, Furter, R., Schnabel, S. (2016). *Standard Setting Essentials and an Evidence-Based Approach for Determining if it's Time for a Reset*. Workshop at the annual meeting of the Association of Test Publishers, Orlando, FL.

- Peterson, L.E., **Peabody, M.R.**, & O'Neill, T.R. (2016). *Family Medicine Resident Self-Reported Preparation and Milestones Ratings Have Low Correlations*. Poster presented at the ACGME Annual Educational Conference, National Harbor, MD.
- Peabody, M.R.**, O'Neill, T.R., & Peterson, L.E. (2016). *Examining the Rating Scale Category Effectiveness for the Family Medicine Milestones*. Poster presented at the ACGME Annual Educational Conference, National Harbor, MD.
- Peabody, M.R.**, O'Neill, T.R., & Peterson, L.E. (2016). *Relationship between Family Medicine Milestones scores and American Board of Family Medicine In-Training Examination scores*. Podium presentation at the ACGME Annual Educational Conference, National Harbor, MD.
- Peabody, M.R.**, O'Neill, T.R., & Peterson, L.E. (2016). *Relationship between Family Medicine Milestones scores and American Board of Family Medicine In-Training Examination scores*. Poster presented at the ACGME Annual Educational Conference, National Harbor, MD.
- Peabody, M.R.**, & Wind, S.A. (2016). *Exploring the Influence of Judge Proficiency on Standard-Setting Judgments for Medical Examinations*. Paper presented at the annual meeting of the National Council on Measurement in Education, Washington, D.C.
- Peabody, M.R.** (Nov 10, 2015). *Introduction to Rasch Measurement and Psychometrics*, Invited Speaker for the Miami University College of Education, Miami, OH.
- Peabody, M.R.** (2015). *Exploration of Baseball "Ability" with FACETS*. Paper presented at the annual meeting of the Ohio River Valley Objective Measurement Seminar, Lexington, KY.
- Peabody, M.R.** (2015). *Partial Credit Model analysis of the ACGME Family Medicine Milestones*. Paper presented at the annual meeting of the Ohio River Valley Objective Measurement Seminar, Lexington, KY.
- Invited Speaker. (April 2, 2015). *Introduction to Rasch Measurement and Psychometrics*, University of Kentucky - College of Education, Lexington KY
- O'Neill, T.R., **Peabody, M.R.**, Cochrane, A., & Peterson, L.E. (2015). *The Predictive Validity of ABFM's In-Training Examination*. Paper presented at the annual meeting of the Society of Teachers of Family Medicine, Orlando, FL.

- Peabody, M.,** Bradley, K., & Custer, M. (2015). *Assessing the validity of a continuum-of-care survey: A Rasch measurement approach*. Paper presented at the 2015 meeting of the International Outcomes Measurement Conference, Chicago, IL.
- Li, Z., O'Neill, T., **Peabody, M.,** & Royal, K. (2015). *The Predictive Validity of the ABFM's In-Training Examination*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Peabody, M.** (2015). *Examining the recommendations provided by highly qualified and minimally qualified subject matter experts using three standard setting methods*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Peabody, M.,** O'Neill, T., Fain, R., Peterson, L., & Lybarger, M. (2015). *Illustrating the Psychometric Construct of Family Medicine on the American Board of Family Medicine's examinations*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Bradley, K., **Peabody, M.,** & Mensah, R. (2015). *Applying the Many-Faceted Rasch Measurement Model to Explore Reviewer Ratings of AERA Annual Conference Proposals*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Peterson, L., Blackburn, B., **Peabody, M.,** & O'Neill, T. (2014) *Family Physicians' Scope of Practice and American Board of Family Medicine Recertification Examination Performance*. Paper presented at the annual meeting of the North American Primary Care Research Group, New York, NY.
- Peterson, L., Finnegan, S., **Peabody, M.,** O'Neill, T., & Phillips, R. (2014) *Family Physicians' Scope of Practice Varies by Practice Organization and Rural/Urban Status*. Paper presented at the annual meeting of the North American Primary Care Research Group, New York, NY.
- Peabody, M.** (2014). *Stealing Thurstone's Crime Scale: A method for paired comparisons*. Presentation at the annual meeting of the Ohio River Valley Objective Measurement Seminar, Cincinnati, OH.

Peterson, L., **Peabody, M.**, & O'Neill, T. (2014). *The Scope of Practice for Primary Care (SP4PC) Scale: A Psychometric Scale to Measure Scope of Practice*. Poster presented at the annual meeting of Academy Health, San Diego, CA.

Peabody, M. (2011). *"Promising Practices" in the Retention of First-Generation College Students*. Paper presented at the College Personnel Association of Kentucky annual meeting, Lexington, KY.

ASSESSMENT & EVALUATION REPORTS

Peabody, M.R., Sampson, S.O., & Bradley, K.D. (2022). University of Kentucky College of Medicine OSCE Investigation. Lexington, KY: University of Kentucky College of Education Evaluation Center.

Hagen, M., O'Neill, T.R., & **Peabody, M.R.** (2014). Do Diplomates Think that the MC-FP Examination Items Require Using an External Searchable Resource? Lexington, KY: American Board of Family Medicine.

Peabody, M. (2013). KBEMS 2012 Renewal Survey. KCTCS Office of Research and Policy Analysis for the Kentucky Board of Emergency Medical Services. Versailles, KY: Kentucky Board of Emergency Medical Services

Peabody, M., Hutchens, N., Lewis, W., & Deffendall, M. (2011). *First-Generation College Students at the University of Kentucky*. Lexington, KY: Kentucky Education Policy & Law Lab. Available at:
<http://uknowledge.uky.edu/cgi/viewcontent.cgi?article=1000&context=packe>

SERVICE

Editorial

Editorial Board, Journal of Educational Measurement	2022 – present
Editorial Board, Education in the Health Professions	2018 – present
Editorial Board, Journal of Applied Testing Technology	2015 – present
Guest Editor, Applied Measurement in Education	2020
Practical Issues in Linking and Equating with Small Samples	
Guest Editor, Journal of Applied Testing Technology	2019
Assessment in Medical Education	

Ad Hoc Reviewer

Measurement: Interdisciplinary Research and Perspectives	2018 – present
Educational Measurement: Issues & Practice	2017 – present
Annals of Family Medicine	2017 - present
Journal of Pediatrics	2016
Journal of the American Board of Family Medicine	2015 – present
Journal of Educational Measurement	2015 – present
International Journal of Testing	2015 – present
Family Medicine	2014 – present
Archives of Physical Medicine and Rehabilitation	2013 – present
Paul F. Fidler Research Grant, National Resource Center, University of South Carolina:	2013 – 2016

Conference Proposal Reviewer / Discussant

National Council for Measurement in Education (NCME)	2019 – present
AERA Division D - Measurement & Research Methodology	2016 – present
Association of Test Publishers	2015 – present
AERA Division I - Education in the Professions	2015 – present
AERA Professional Licensure & Certification SIG	2014 – 2019
AERA Rasch SIG	2014 – present
Mid-Western Educational Research Association, Measurement	SIG 2013

Committees

Association of Test Publishers (ATP)	
Chair: Graduate Student Research Award	2021, 2022
National Council for Measurement in Education (NCME)	
Certification/Licensure Special Interest Group	
Communication Chair	2019 – 2022
Chair	2022 – 2023
National Council for Measurement in Education (NCME)	
Publications Committee	
Member	2019 – 2020
Co-chair	2020 – 2023
American Board of Medical Specialties (ABMS)	
Annual Conference Advisory Committee	2019
Association of Test Publishers (ATP)	
Certification/Licensure Division,	
Recertification & Renewal Subcommittee Chair	2019 – 2020

Association of Test Publishers (ATP) Certification/Licensure Division, Recertification & Renewal Subcommittee Co-Chair	2018 – 2019
Association of Test Publishers (ATP) Certification/Licensure Division, Recertification & Renewal Subcommittee Co-Chair	2017 – 2018
American Educational Research Association (AERA) Professional Licensure & Certification SIG Program Chair	2017 – 2019
Association of Test Publishers (ATP) Certification/Licensure Division, Recertification Subcommittee Vice-Chair	2016 – 2017
University of Kentucky Robinson Scholars Program Scholarship Selection Team	2013 – 2016
Scholarly Learning Community on 1st-gen college Students	2010 – 2011

Courses Taught

EPE/EDP 558 – Gathering, Analyzing, and Using Educational Data II Spring 2020
EPE/EDP 679 - Introduction to Measurement Fall 2022, Spring 2024
EPE/EDP 712 – Advanced Psychometric Methods: Rasch Models Spring 2019, Spring 2021, Spring 2023

Doctoral Dissertations

Co-Chair:

- Qiu, Chen. (Summer 2022). *Exploring the Use of Rasch Models to Construct Measures of Firms' Profitability with Multiple Discretization Ratio-type Data*

Committee Member:

- Jin, Rui. (Fall 2021). *Teacher Perception of School Climate: A New Instrument and Validity Study.*
- Li, Nan. (Fall 2022). *Validation of an early childhood emotional and social competence instrument using a Rasch Partial Credit model.*

- Xia, Yuyan. (Summer 2023). *Score Equating for the Common-item Nonequivalent Group Design under the Rasch model framework: An application of equating scores between AEPS-2 and AEPS-3 for 0-3 year olds*
- Desmennu, Olumuyiwa Moses. (Summer 2023). *Evaluation of interdisciplinary competencies in occupational safety and health among graduates from the CARERC program.*
- Shen, Lijun. (TBD). *Investigating equity of a STEM literacy assessment in an informal learning environment using differential item functioning analysis in the Rasch model.*
- Stenuelson, David. (TBD). *Untitled*

PROFESSIONAL AFFILIATIONS

American Educational Research Association (AERA)
Division D – Measurement and Research Methodology
Division I – Education in the Professions
SIG – Rasch Measurement
National Council on Measurement in Education (NCME)
Psychometric Society