

**Curriculum Vitae
Yoon Soo Park, PhD**

Associate Professor
Department of Medical Education
University of Illinois – College of Medicine at Chicago
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EDUCATION

Ph.D. Measurement, Evaluation, and Statistics
Columbia University, New York, NY, 2011

M.S. Applied Statistics
Columbia University, New York, NY, 2009

B.A. Mathematics and Japanese (High Honors), *magna cum laude*
Colgate University, Hamilton, NY, 2003

PROFESSIONAL EXPERIENCE

- 2017 – present **Associate Professor**, Department of Medical Education, University of Illinois – College of Medicine at Chicago, Chicago, IL
- 2017 – 2018 **Kimitaka Kaga Visiting Professor**, International Research Center for Medical Education, Graduate School of Medicine, University of Tokyo, Tokyo, Japan
- 2015 – present **Adjunct Research Assistant Professor**, College of Global Public Health, New York University, New York, NY
- 2015 – present **Adjunct Assistant Professor**, Department of Global Community Health and Behavioral Sciences, School of Public Health and Tropical Medicine, Tulane University, New Orleans, LA
- 2015 – present **Affiliated Faculty**, Department of Curriculum and Instruction, College of Education, University of Illinois at Chicago, Chicago, IL
- 2013 – present **Affiliated Researcher**, Consortium on Chicago School Research, Urban Education Institute, University of Chicago, Chicago, IL

- 2013 – 2015 **Adjunct Associate Research Scholar**, National Center for Disaster Preparedness, Earth Institute, Columbia University, New York, NY
- 2012 – 2017 **Assistant Professor**, Department of Medical Education, University of Illinois – College of Medicine at Chicago, Chicago, IL
- 2011 – 2012 **Senior Research Project Manager**, Research & Development, Educational Testing Service, Princeton, NJ
- 2008 – 2011 **Project Coordinator / Data Manager**, National Center for Disaster Preparedness, Columbia University, New York, NY

RESEARCH INTERESTS

Assessment, psychometrics (item response theory, classical test theory, and diagnostic classification models), validity, rater effects, statistical modeling of psychological and social processes in medicine, disaster and recovery research, applied statistics

HONORS

- 2018 **Established Investigator Award**, American Educational Research Association (AERA) Division I.
- 2018 **College of Medicine – Departmental Faculty of the Year**, University of Illinois – College of Medicine at Chicago.
- 2016 **Teaching Recognition Program (TRP) Award**, Teaching Excellence Review Committee, University of Illinois at Chicago.
- 2014 **Alicia Cascallar Award**, National Council on Measurement in Education (NCME).
- 2014 **College of Medicine – Departmental Rising Star Award**, University of Illinois – College of Medicine at Chicago.
- 2014 **Research in Medical Education (RIME) Best Paper Award**, Association of American Medical Colleges (AAMC). *Assessing residents' written learning goals and goal writing skill: Validity evidence for the learning goal scoring rubric*. Published in *Academic Medicine*, co-authored with T. Lockspeiser.
- 2011 **Educational Testing Service Presidential Award**, Educational Testing Service (ETS).

GRANT/CONTRACT AWARDS

Active Grants/Contracts

- ²¹ **Park, Y. S.**, Marvin, R., & Tekian, A., 4/1/2018 – 3/31/2020
American Board of Psychiatry and Neurology (ABPN) – *Research Award*
“*Evaluating the Validity of Assessment Systems in Psychiatry Residency Programs.*”
Role: Principal Investigator
- ²⁰ Sufian, S., Michel, J., Hyderi, A., & **Park, Y. S.**, 1/1/2018 – 12/31/2019
National Endowment for the Humanities (NEH) – *Grant Award*
“*The Human Story of Illness: Health Humanities Portraits for Physicians in Training.*”
Role: Assessment Specialist
- ¹⁹ Bond, W. F., Mischler, M. J., Lynch, T. J., Aiyer, M., Taylor, J. T., Mahale, D. N. & **Park, Y. S.** 1/1/2018 – 12/31/2018
University of Illinois–College of Medicine at Peoria –*Dean’s Innovation Award in Medical Student Education*
“*Use of Interactive Intelligent Avatar-Based Simulation Cases to Learn High Value Care*”
Role: Co-Investigator
- ¹⁸ Skochelak, S., **Park, Y. S.**, & Dekhtyar, M. 10/1/2017 – 9/30/2018
American Medical Association (AMA) and Marcus Foundation – *Research Award*
“*Evaluation of a Virtual Interactive Platform in Enhancing Diagnostic Reasoning and Improving Diagnostic Accuracy*”
Role: Co-Investigator
- ¹⁷ Abramson, D. A., Peek, L., & **Park, Y. S.**, 7/1/2015 – 6/30/2020
Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), National Institutes of Health (NIH)
“*Demographic and Health Disparities in Recovery from Hurricane Katrina: Katrina@10*” (1P01HD082032-01A1; P01, R01)
Role: Co-Investigator
- ¹⁶ Sullivan, M., Sachdeva, A., Bordage, G., & **Park, Y. S.**, 1/1/2013 – 12/31/2018
American College of Surgeons (ACS) – *American College of Surgeons – Entering Resident Readiness Assessment (ACS-ERRA)*
“*Development and validation of the ACS-ERRA examination*”
Role: Co-Principal Investigator

Completed Grants/Contracts

- ¹⁵ Damewood, R., Sachdeva, A., Blair, P., & **Park, Y. S.**, 7/1/2015 – 5/31/2017
American College of Surgeons (Prime), Accreditation Council for Graduate
Medical Education, American Board of Surgery, Association of Program Directors
in Surgery
“*Fix the FIVE project*”
Role: Co-Principal Investigator
- ¹⁴ Abramson, D., Peek, L., van Alst, D., Findley, P., & **Park, Y. S.**, 6/1/2014 – 6/30/2015
New Jersey Department of Health – *Social Services Block Grant*
“*Sandy child and family health study*”
Role: Statistician
- ¹³ Yang, E. B., **Park, Y. S.**, Lee, M. A., & Lee, I. H. 3/1/2014 – 12/31/2014
National Health Personnel Licensing Examination Board, Republic of Korea –
Research Grant Award
“*Investigating the impact of test item disclosure for the Korean Medical Licensing
Examination*”
Role: Co-Principal Investigator
- ¹² Park, C. H., Kang, T. H., Kim, K. S., Park, H. K., Kim, J. H., & **Park, Y. S.**, 1/1/2014 –
12/31/2014
National Health Personnel Licensing Examination Board, Republic of Korea –
Research Grant Award
“*Studies on reliability estimation for clinical skills licensing performance
examination*”
Role: Co-Principal Investigator
- ¹¹ Mema, B., **Park, Y. S.**, & Mylopoulos, M., 1/1/2014 – 12/31/2014
SickKids The Hospital for Sick Children, University of Toronto – *Pediatric
Consultant’s Education Research Grant*
“*Rehearsal vs. Premier – Chest tube skills from simulation to bedside*”
Role: Co- Investigator
- ¹⁰ **Park, Y. S.**, 6/15/2013 – 12/31/2014
Educational Testing Service (ETS) – *Focus Observer Proficiency Assessment
Research project*
“*Examining the underlying factorial structure of the 2011 Teachscape Focus
Observer Proficiency Assessment*”
Role: Principal Investigator
- ⁹ Abramson, D., & **Park, Y. S.**, 1/1/2013 – 3/31/2014
Save the Children – *Community and State Child-Focused Emergency Preparedness
Assessment Tools*
“*Support for Save the Children’s resilient and ready communities initiative*”

Role: Co-Principal Investigator

- ⁸ **Park, Y. S.**, 1/1/2013 – 12/31/2013
Association of Standardized Patient Educators (ASPE) – *ASPE Grants and Research Project Award*
“*Investigating psychometric properties of scoring based on live interaction and videotaped observation: Focusing on communication and interpersonal skills*”
Role: Principal Investigator
- ⁷ **Park, Y. S.**, 5/15/2012 – 12/31/2013
Educational Testing Service (ETS) – *Research Studies for Framework for Teaching Proficiency System (FfTPS)*
“*An examination of the relationship among FfTPS test sections: A testlet analysis*”
Role: Principal Investigator
- ⁶ **Park, Y. S.**, 5/15/2012 – 12/31/2013
Bill & Melinda Gates Foundation – *Measures for Effective Teaching (MET) research volume*
“*Examining rater effects of perceptual differences and differential rater functioning on the accuracy of scoring observations in teaching effectiveness*”
Role: Subcontract Principal Investigator
- ⁵ Bashook, P., & **Park, Y. S.**, 1/1/2013 – 6/30/2013
Royal College of Dentists of Canada (RCDC)
“*Psychometric analysis of the RCDC periodontics and orthodontics exams*”
Role: Co-Principal Investigator
- ⁴ **Park, Y. S.**, 3/29/2012 – 5/31/2013
New Jersey State Department of Education (Clowder Consulting subcontract)
“*Psychometric services on the observation of teaching practice*”
Role: Subcontract Principal Investigator
- ³ **Park, Y. S.**, 3/1/2012 – 8/30/2012
New York State Department of Health (joint with Columbia University)
“*Psychometric properties of the evacuation decision support tool*”
Role: Principal Investigator
- ² Song, M.-Y., Lee, Y.-S., & **Park, Y. S.**, 7/1/2011 – 11/31/2011
Korea Institute for Curriculum and Evaluation (KICE) – *National Assessment of Educational Achievement (NAEA) Research Project*
“*Examining the National Assessment of Educational Achievement using a cognitive diagnostic modeling framework: Analysis and policy recommendations*”
Role: Co-Principal Investigator
- ¹ Lee, Y.-S., & **Park, Y. S.**, 8/15/2010 – 12/07/2010

Korea Institute for Curriculum and Evaluation (KICE) – *College Scholastic Aptitude Test (CSAT) Research Project*
“Post-smoothing by kernel equating to compare college scholastic aptitude test performance between offices of education via multilevel methods”
Role: Co-Principal Investigator

Pending Grants/Contracts

¹ Abramson, D. A., Peek, L., & **Park, Y. S.**, 7/1/2018 – 6/30/2022
Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), National Institutes of Health (NIH)
“Health Disparities, Resilience and Life Transitions among Young Adults Exposed to Disasters as Children” (R01)
Role: Co-Investigator

PEER-REVIEWED JOURNAL ARTICLES

- ¹⁰³ **Park, Y. S.**, Hicks, P. J., Carraccio, C., Margolis, M., & Schwartz, A. (in press). Does incorporating a measure of clinical workload improve workplace-based assessment scores? Insights for measurement precision and longitudinal score growth. *Academic Medicine*.
- ¹⁰² Onishi, H., **Park, Y. S.**, Takayanagi, R., & Fujinuma, Y. (in press). Combining scores based on compensatory and non-compensatory scoring rules to assess resident readiness for unsupervised practice: Implications from a national primary care certification examination in Japan. *Academic Medicine*.
- ¹⁰¹ Taylor, D., **Park, Y. S.**, Smith, C., Karpinski, J., Coke, W., & Tekian, A. (in press). Creating entrustable professional activities to assess internal medicine residents in training: A mixed-methods approach. *Annals of Internal Medicine*.
- ¹⁰⁰ Golden, D., Kauffmann, G., McKilip, R. P., Farnan, J., **Park, Y. S.**, & Schwartz, A. (in press). Objective evaluation of a didactic curriculum for the radiation oncology medical student clerkship. *International Journal of Radiation Oncology, Biology, Physics*.
- ⁹⁹ Henriksen, M. J. V., Wienecke, T., Kristiansen, J., **Park, Y. S.**, Ringsted, C., & Konge, L. (in press). Stress when performing the first lumbar puncture may compromise patient safety. *Neurology*.
- ⁹⁸ Tanaka, P., Adriano, A., Ngai, L., **Park, Y. S.**, Marty, A., Wakatsuki, S., Brun, C., Harrison, K., Bushell, E., Thomsen, J. L. D., Wen, L., Painter, C., Chen, M., & Macario, A. (in press). Development of an objective structured clinical examination (OSCE) using the American Board of Anesthesiology content outline for the OSCE component of the Applied Certification Examination. *Anesthesia & Analgesia Practice*.
- ⁹⁷ Reddy, S. T., Tekian, A., Durning, S., Gupta, S., Endo, J., Affinati, B., & **Park, Y. S.** (in press). Preliminary validity evidence for a milestone-based rating scale for chart stimulated recall. *Journal of Graduate Medical Education*.
- ⁹⁶ Natt, N, Starr, S. R., Reed, D. A., **Park, Y. S.**, Dyrbye, L. N., & Hunderfund, A. N. L. (in press). High-value, cost-conscious communication skills in undergraduate medical education: Validity evidence for scores derived from two standardized patient scenarios. *Simulation in Healthcare*.
- ⁹⁵ Jamjoom, R. S., & **Park, Y. S.** (in press). Assessment of pediatric residents burnout in a tertiary academic center. *Saudi Medical Journal*.

- ⁹⁴ Kamel, F. O., Alwafi, H. A., Alshaghab, M. A., Almutawa, Z. M., Alshawwa, L. A., Hagra, M., **Park, Y. S.**, & Tekian, A. (in press). Prevalence of prescription errors in general practice in Jeddah, Saudi Arabia. *Medical Teacher*.
- ⁹³ Awan, A. A., Awan, Z. A., Alshawwa, L., Tekian, A., & **Park, Y. S.** (in press). Assisting the integration of social media in problem-based learning sessions in the Faculty of Medicine at King Abdulaziz University. *Medical Teacher*.
- ⁹² Alkhalaf, A. H., Tekian, A., & **Park, Y. S.** (in press). The impact of Whatsapp use on academic achievement among Saudi medical students. *Medical Teacher*.
- ⁹¹ Alzahrani, S. S., **Park, Y. S.**, & Tekian, A. (in press). Study habits and academic achievement among medical students: A comparison between male and female subjects. *Medical Teacher*.
- ⁹⁰ Castillo, J.M., **Park, Y. S.**, Harris, I., Cheung, J. H., Sood, L., Clark, M. D., Kulasegaram, K., Brydges, R., Norman, G., & Woods, N. (2018). A critical narrative review of transfer of basic science knowledge in health professions. *Medical Education*. Advance online publication (February 8, 2018). doi: 10.1111/medu.13519
- ⁸⁹ Shappell, E., Ahn, J., Ahmed, N., Harris, I., **Park, Y. S.**, & Tekian, A. (2018). Personal finance education for residents: A qualitative study of resident perspectives. *Academic Emergency Medicine: Education & Training*. Advance online publication (February 8, 2018). doi: 10.1002/aet2.10090
- ⁸⁸ Fallatah, H., Tekian, A., Farsi, J., Alshawwa, L. A., & **Park, Y. S.** (2018). Mentoring clinical-year medical students: Factors contributing to effective mentoring. *Journal of Medical Education and Curricular Development*. Advance online publication (January 17, 2018). doi: 10.1177/2382120518757717
- ⁸⁷ Bahous, S. A., Salameh, P., Salloum, A., Salameh, W., **Park, Y. S.**, & Tekian, A. (2018). Voluntary vs. compulsory student evaluation of clerkships: Effect on validity and potential bias. *BMC Medical Education*. Advance online publication (January 5, 2018). doi: 10.1186/s12909-017-1116-8
- ⁸⁶ Schwartz, L., Lineberry, M., **Park, Y. S.**, Kamin, C., & Hyderi, A. (2017). Development and evaluation of a student-initiated test preparation program for the USMLE Step 1 examination. *Teaching and Learning in Medicine*. Advance online publication (December 14, 2017). doi: 10.1080/10401334.2017.1386106
- ⁸⁵ Nassar, H., **Park, Y. S.**, & Tekian, A. (2017). Comparison of weighted and composite scores for preclinical dental learners. *European Journal of Dental Education*. Advance online publication (December 11, 2017). doi: 10.1111/eje.12313
- ⁸⁴ Bajwa, N. M., Yudkowsky, R., Belli, D., Vu, N. V., & **Park, Y. S.** (2017). Validity evidence for a residency admissions standardized assessment letter for pediatrics.

Teaching and Learning in Medicine. Advance online publication (November 27, 2017). doi: 10.1080/10401334.2017.1367297

- ⁸³ **Park, Y. S.**, Xing, K., & Lee, Y.-S. (2017). Explanatory cognitive diagnostic models: Incorporating latent and observed predictors. *Applied Psychological Measurement*. Advance online publication (November 16, 2017). doi: 10.1177/0146621617738012
- ⁸² Uchida, T., Achike, F. I., Blood, A. D., Boyle, M., Farnan, J. M., Deepthiman, G., Hojsak, J., Ovitsh, R. K., **Park, Y. S.**, & Silvestri, R. (2017). Resources used to teach the physical exam to pre-clerkship medical students: Results of a national survey. *Academic Medicine*. Advance online publication (November 7, 2017). doi: 10.1097/ACM.0000000000002051
- ⁸¹ **Park, Y. S.**, Hyderi, A., Heine, N., May, W., Nevins, A., Lee, M., Bordage, G., & Yudkowsky, R. (2017). Validity evidence and scoring guidelines for standardized patient encounters and patient notes from a multisite study of clinical performance examinations in seven medical schools. *Academic Medicine*, *92*(11S), S12-S20.
- ⁸⁰ Taylor, D., **Park, Y. S.**, Chan, M.-K., Karpinski, J., Touchie, C., Snell, L. S., & Tekian, A. (2017). EQual, a novel rubric to reliably evaluate entrustable professional activities for quality and structure. *Academic Medicine*, *92*(11S), S110-S117.
- ⁷⁹ Varpio, L., Farnan, J., & **Park, Y. S.** (2017). Summary: Research diseases need holistic care. *Academic Medicine*, *92*(11S), S7-S11.
- ⁷⁸ Vaporciya, A. A, Fikfak, V., Lineberry, M. C., **Park, Y. S.**, & Tekian, A. (2017). Consensus derived coronary anastomotic checklist reveals significant variability among experts. *The Annals of Thoracic Surgery*, *104*, 2087-2092.
- ⁷⁷ Fanous, A., Rappaport, J., Young, M., **Park, Y. S.**, Manoukian, J., & Nguyen L. H. P. (2017). A simulation-based ethical-legal curriculum for otolaryngology residents. *The Laryngoscope*. Advance online publication (August 29, 2017). doi: 10.1002/lary.26551
- ⁷⁶ Damewood, R. B., Blair, P. G., **Park, Y. S.**, Lupi, L. K., Newman, R. W., & Schdeva, A. K. (2017). Taking training to the next level: The American College of Surgeons Committee on Residency Training survey. *Journal of Surgical Education*. Advance online publication (August 3, 2017). doi: <http://dx.doi.org/10.1016/j.jsurg.2017.07.008>
- ⁷⁵ Hunderfund, A. N. L, **Park, Y. S.**, Hafferty, F. W., Nowicki, K. M., Altchuler, S. I., & Reed, D. A. (2017). A multifaceted organizational physician assessment program: Validity evidence and implications for the use of performance data. *Mayo Clinic Proceedings: Innovations, Quality & Outcomes*. Advance online publication (July 25, 2017). doi: <https://doi.org/10.1016/j.mayocpiqo.2017.05.005>

- ⁷⁴ Yang, E. B., Lee, M. A., & **Park, Y. S.** (2017). Effects of test item disclosure on medical licensing examination. *Advances in Health Sciences Education*. Advance online publication (July 31, 2017). doi: 10.1007/s10459-017-9788-8
- ⁷³ Ekpenyong, A., Baker, E., Harris, I., Tekian A., Abrams, R., Reddy, S., & **Park, Y. S.** (2017). How do clinical competency committees use different sources of data to assess residents' performance on the Internal Medicine Milestones? A mixed methods pilot study. *Medical Teacher*. Advance online publication (July 25, 2017). doi: 10.1080/0142159X.2017.1353070
- ⁷² Philips, A. W., Diller, D., Williams, S. R., **Park, Y. S.**, Fisher, J., Biese, K., & Ufberg, J. W. (2017). The CORD-EM Speaker Evaluation Form for medical conference planners. *Academic Emergency Medicine Education and Training*. Advance online publication (July 12, 2017). doi: 10.1002/aet2.10051
- ⁷¹ Karam, V. Y., Barakat, H., Aouad, M., Harris, I., **Park, Y. S.**, Youssef, N., Boulet, J., & Tekian, A. (2017). Effect of a simulation-based workshop on breaking bad news for anesthesiology residents: an intervention study. *BMC Anesthesiology*. Advance online publication (June 14, 2017). doi: 10.1186/s12871-017-0374-7
- ⁷⁰ Knox, A., Ho, A., Leung, L., Hynes, S., Tashakkor, A. **Park, Y. S.**, Macadam, S., & Bowman, C. (2017). A review of 101 consecutive subcutaneous mastectomies and male chest contouring using the concentric circular and free nipple graft techniques. *Plastic and Reconstructive Surgery*. Advance online publication (June 1, 2017). doi: 10.1097/PRS.00000000000003388
- ⁶⁹ Ortega, P. **Park, Y. S.** & Girotti, J. (2017). Evaluation of a Medical Spanish Elective for Senior Medical Students: Improving Outcomes through OSCE Assessments. *Medical Science Educator*. Advance online publication (March 27, 2017). doi: DOI 10.1007/s40670-017-0405-5
- ⁶⁸ Thomsen, A. S. S., Bach-Holm, D., Kjærbo, H., Højgaard-Olsen, K., Subhi, Y., Saleh, G. M., **Park, Y. S.**, la Cour, M., & Konge, L. (2017). Operating room performance improves after proficiency-based virtual reality cataract training. *Ophthalmology*, 124(4), 524-531.
- ⁶⁷ Konge, L., Svendsen, L. B., Svendsen, M. B. S., Preisler, L., & **Park, Y. S.** (2017). Combining different methods improves assessment of competence in colonoscopy. *Scandinavian Journal of Gastroenterology*. Advance online publication (February 13, 2017). doi: 10.1080/00365521.2017.1289415
- ⁶⁶ Oppenheimer, D., Zaromb, F., Pomerantz, J. R., Williams, J. C., & **Park, Y. S.** (2017). Improvement of writing skills during college: A multi-year cross-sectional and longitudinal study of undergraduate writing performance assessing writing. *Assessing Writing*, 32, 12-27.

- ⁶⁵ AlBasri, S.F. Al-Afari, R., Al-Hibshi, A. M., Al-Sayes, F., **Park, Y. S.**, & Tekian, A. (2017). Readiness for self-directed learning among King Abdulaziz University medical students. *International Journal of Research in Medical Sciences*, 5, 290-294.
- ⁶⁴ Nemenqani, D., Tekian, A., & **Park, Y. S.** (2017). Competency assessment in laboratory medicine: Standardization and utility for technical staff assessment and recertification in Saudi Arabia. *Medical Teacher*. Advance online publication (February 5, 2017). doi: 10.1080/0142159X.2016.1254751
- ⁶³ Yousef, M. K., Alshawwa, L., Tekian, A., & **Park, Y. S.** (2017). Challenging the arbitrary cutoff score of 60%: Standard setting evidence from preclinical operative dentistry course. *Medical Teacher*. Advance online publication (January 25, 2017). doi: 10.1080/0142159X.2016.1254752
- ⁶² Alamoudi, A. A., El-Deek, B. S., Alshawwa, L., **Park, Y. S.**, & Tekian, A. (2017). A longitudinal evaluation on the impact of faculty development programs on MCQ item analysis. *Medical Teacher*. Advance online publication (January 22, 2017). doi: 10.1080/0142159X.2016.1254753
- ⁶¹ Abozaid, H., **Park, Y. S.**, & Tekian, A. (2017). Peer review improves psychometric characteristics of multiple choice questions. *Medical Teacher*. Advance online publication (January 20, 2017). doi: 10.1080/0142159X.2016.1254743
- ⁶⁰ Althiga, H., Mohideen, S., **Park, Y. S.**, & Tekian, A. (2017). Preparing for practice: Nursing intern and faculty perceptions on clinical experiences. *Medical Teacher*. Advance online publication (January 31, 2017). doi: 10.1080/0142159X.2016.1254739
- ⁵⁹ **Park, Y. S.**, Lineberry, M., Hyderi, A., Bordage, G., Xing, K., & Yudkowsky, R. (2016). Differential weighting for subcomponent measures of Integrated Clinical Encounter scores based on the USMLE Step-2 CS examination: Effects on composite score reliability and pass-fail decisions. *Academic Medicine*, 91, S24-S30.
- ⁵⁸ Lembke, E., Lee, Y.-S., **Park, Y. S.**, & Hampton, D. (2016). Longitudinal Growth on Curriculum-Based Measurements Mathematics Measures for Early Elementary Students. *ZDM Mathematics Education*. Advance online publication (August 2, 2016). doi: 10.1007/s11858-016-0804-x
- ⁵⁷ Lee, Y.-S., **Park, Y. S.**, & Ginsburg, H. (2016). Socio-economic status differences in mathematics accuracy, strategy use, and profiles in early years of schooling. *ZDM Mathematics Education*. Advance online publication (May 5, 2016). doi: 10.1007/s11858-016-0783-y

- ⁵⁶ Bajwa, N., Yudkowsky, R., Belli, D., Vu, N. V., & **Park, Y. S.** (2016). Improving the residency admissions process by integrating a professionalism assessment: A validity and feasibility study. *Advances in Health Sciences Education*. Advance online publication (April 23, 2016). doi: 10.1007/s10459-016-9683-8
- ⁵⁵ **Park, Y. S.**, Zar, F., Norcini, J., & Tekian, A. (2016). Competency evaluations in the next accreditation system: Contributing to guidelines and implications. *Teaching and Learning in Medicine*, 28(2), 135-145.
- ⁵⁴ Hunderfund, A. N., Rubin, D. I., Laughlin, R. S., Sorenson, E. J., Watson, J. C., Jones, L. K., Juul, D., & **Park, Y. S.** (2016). Validity and feasibility of the electromyography direct observation tool (EMG-DOT). *Neurology*. doi: 10.1212/WNL.0000000000002609
- ⁵³ **Park, Y. S.**, Lee, Y.-S., Xing, K. (2016). Investigating the impact of item parameter drift for item response theory models with mixture distributions. *Frontiers in Psychology*. Advance online publication (February 24, 2016). doi: 10.3389/fpsyg.2016.00255
- ⁵² Albert, D., Blood, A., **Park, Y. S.**, Brorson, J. R., & Lukas, R. V. (2016). Breadth vs. volume: Neurology outpatient clinic cases in medical education. *Journal of Clinical Neuroscience*. Advance online publication (February 17, 2016). doi:10.1016/j.jocn.2015.12.020
- ⁵¹ Mema, B., **Park, Y. S.**, & Kotsakis, A. (2016). Validity and feasibility evidence of objective structured clinical exam (OSCE) to assess competencies of pediatric critical care trainees. *Critical Care Medicine*. Advance online publication (February 9, 2016). doi: 10.1097/CCM.0000000000001604
- ⁵⁰ Alaki, S. M., Shinawi, L. A., Yamani, I., Hassan, M. H. A., Tekian, A., & **Park, Y. S.** (2016). Gathering validity evidence in the use of multiple mini-interviews as an admission tool for dental students: Preliminary evidence from Saudi Arabia. *Medical Teacher*, 38(S1), S45-S51.
- ⁴⁹ **Park, Y. S.**, Hyderi, A., Bordage, G., Xing, K., & Yudkowsky, Y. (2016). Inter-rater reliability and generalizability of patient note scores using a scoring rubric based on the USMLE Step-2 CS format. *Advances in Health Sciences Education*. Advance online publication (January 12, 2016). doi: 10.1007/s10459-015-9664-3
- ⁴⁸ **Park, Y. S.**, & Yang, E. B. (2015). Three controversies over item disclosure in medical licensure examinations. *Medical Education Online*. doi: 10.3402/meo.v20.28821
- ⁴⁷ George, P., Green, E. P., **Park, Y. S.**, & Gruppuso, P. A. (2015). A five-year experience with an elective scholarly concentrations program. *Medical Education Online*. doi: 10.3402/meo.v20.29278.

- ⁴⁶ Yudkowsky, R., **Park, Y. S.**, Hyderi, A., & Bordage, G. (2015). Characteristics and implications of diagnostic justification scores based on the new patient note format of the USMLE Step 2 CS Exam. *Academic Medicine*, *90(11 Supplement)*, S56-S62.
- ⁴⁵ Blood, A., **Park, Y. S.**, Lukas, R. V., Brorson, J. R. (2015). Neurology objective structured clinical examination reliability using generalizability theory. *Neurology*, *85(18)*, 1623-1629.
- ⁴⁴ Yudkowsky, R., **Park, Y. S.**, Lineberry, M., Knox, A., Ritter, E. M. (2015). Setting mastery learning standards. *Academic Medicine*, *90(11)*, 1495-1500.
- ⁴³ Lineberry, M., **Park, Y. S.**, Cook, D., & Yudkowsky, R. (2015). Making the case for mastery learning assessments: Key issues in validation and justification. *Academic Medicine*, *90(11)*, 1445-1450.
- ⁴² Reddy, S., Endo, J., Gupta, S., Tekian, A., & **Park, Y. S.** (2015). A case for caution: Chart stimulated recall. *Journal of Graduate Medical Education*, *7(4)*, 531-535.
- ⁴¹ George, P., **Park, Y. S.**, Ip, J., Gruppuso, P. A., & Adashi, E. Y. (2015). The association between premedical curricular and admission requirements and medical school performance and residency placement: A study of two admission routes at the Warren Alpert Medical School of Brown University. *Academic Medicine*. Advance online publication (September 25, 2015). doi: 10.1097/ACM.0000000000000922
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BOOK CHAPTER

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- ¹ **Park, Y. S.**, Chen, J., & Holtzman, S. (2014). Evaluating efforts to minimize rater bias in scoring classroom observations. In Kane, T. J., Kerr, K. A., and Pianta, R. C. (Eds.) *Designing teacher evaluation systems: New guidance from the Measures of Effective Teaching project* (pp. 383-414). San Francisco, CA: Wiley.

PEER-REVIEWED ABSTRACTS

- ⁶ Wood, S. C., DaRosa, D., **Park, Y. S.**, & Tekian, A. (2017). Operative learning needs and preparation for the gynecologic operating room: A comparison between junior and senior residents. *Obstetrics & Gynecology, 130(4)*, 49S. doi: 10.1097/01.AOG.0000525751.15509.79
- ⁵ Wood, S. C., **Park, Y. S.**, DaRosa, D., & Tekian, A. (2017). Perceived resident preparation and learning needs in the gynecologic operating room. *American Journal of Obstetrics & Gynecology, 216(3)*, S564-565. doi: <http://dx.doi.org/10.1016/j.ajog.2016.12.158>
- ⁴ Rambihar, S., Lineberry, M., Nesbitt, G., Edwards, J., Kisselman, G., **Park, Y. S.**, Tekian, A., & Brydges, R. (2017). Echo milestones: A novel simulation-based echocardiography competence tool for formative assessment in cardiology training. *Journal of the American College of Cardiology, 69(11)*, 2514. doi: 10.1016/S0735-1097(17)35903-X
- ³ Porteous, H., **Park, Y. S.**, Marsh, S., & Bailey, J. (2015). Using an evidence based computerized clinical decision alert to reduce unnecessary blood transfusion in stable hospitalized patients and increase cost savings associated with needless blood transfusion. *Journal of Hospital Medicine, 10 (suppl 2)*. <http://www.shmabstracts.com/abstract/using-an-evidence-based-computerized-clinical-decision-alert-to-reduce-unnecessary-blood-transfusions-in-stable-hospitalized-patients-and-increase-cost-savings-associated-with-needless-blood-transfusi/>

² **Park, Y. S.**, Hurm, M., Xing, K., Anderson, L., Kamin C., & Yudkowsky, R. (2014). Investigating the psychometric properties of scoring based on live-interaction and videotaped observations: Focusing on communication and interpersonal skills. *Simulation in Healthcare*, 9, 209-211.

¹ Yudkowsky, R., **Park, Y. S.**, Riddle, J., Palladino, C., & Bordage, G. (2013). Comparing the validity of clinically discriminating versus traditional “thoroughness” checklists. *Simulation in Healthcare*, 8(3), 196.

PEER-REVIEWED LETTER TO THE EDITOR

¹ Ghaderi, I., Harris, I., **Park, Y. S.**, Ott, M., Juul, D., Farrell, T. (2016). Response to “An addition to the technical skills assessment”. *Annals of Surgery*. Advance online publication (January 28, 2016). doi: 10.1097/SLA.0000000000001430.

TECHNICAL REPORTS

⁹ Abramson, D., Van Alst, D., Merdjanoff, A., Piltch-Loeb, R., Beedasy, J., Findley, P., Peek, L., Mordy, M., Moroso, S., Ocasio, K., **Park, Y. S.**, Sury, J., & Tobin-Gurley, J. (2015). *The PERSON report: Sandy child & family health study (S-CAFH)*. Rutgers University School of Social Work, New York University Global Institute of Public Health, National Center for Disaster Preparedness at Columbia University, Colorado State University.

⁸ Abramson, D., Van Alst, D., Merdjanoff, A., Piltch-Loeb, R., Beedasy, J., Findley, P., Peek, L., Mordy, M., Moroso, S., Ocasio, K., **Park, Y. S.**, Sury, J., & Tobin-Gurley, J. (2015). *The PLACE report: Sandy child & family health study (S-CAFH)*. Rutgers University School of Social Work, New York University Global Institute of Public Health, National Center for Disaster Preparedness at Columbia University, Colorado State University.

⁷ **Park, Y. S.** (2014). *Survey weighting plan for the Sandy Child and Family Health Study*. New York, NY: Columbia University.

⁶ **Park, Y. S.** (2013). *Examining the relationship among test sections of the Framework for Teaching Proficiency Test: A testlet analysis*. Princeton, NJ: Educational Testing Service.

⁵ **Park, Y. S.**, Abramson, D., & Levin, K. (2012). *Assessing the reliability and validity of the evacuation support decision tool*. Albany, NY: New York State Department of Health.

⁴ Abramson, D., Redlener, I., Stehling-Ariza, T., Sury, J., Banister, A., & **Park, Y. S.** (2010). *Impact on children and families of the deepwater horizon oil spill*:

Preliminary findings of the coastal population impact study. New York, NY: National Center for Disaster Preparedness, Columbia University, Mailman School of Public Health.

³ Abramson, D., Stehling-Ariza, T., **Park, Y. S.**, Gruber, D., Wilson, C., Sury, J. & Banister, A. (2009). *Second Wind: The impact of hurricane Gustav on Katrina survivors.* New York, NY: National Center for Disaster Preparedness, Columbia University, Mailman School of Public Health.

² **Park, Y. S.** (2007). *The economics of legislating homeschooling in South Korea.* Seoul, South Korea: Republic of Korea National Assembly.

¹ Hong, S. C. & **Park, Y. S.** (2006). *An investigation of the scope and monopoly in the textbook market.* Seoul, South Korea: Republic of Korea National Assembly.

INVITED PRESENTATIONS

³² **Park, Y.S.** (2018, June). *Gathering validity evidence: Translating best practices for developing, planning, and analyzing assessments.* Chronic Disease Prevention and Management Interest Group, American Medical Association, Chicago, IL.

³¹ **Park, Y.S.** (2018, May). *Harmonizing measures using score linking: Classical techniques and item response theory approaches.* Center for Studies of Displaced Populations, Tulane University, New Orleans, LA.

³⁰ **Park, Y.S.** (2018, February). *Developing post-clinical clerkship examinations: Insights from assessment theories and empirical evidence.* Medical Education Lecture, University of Kyoto, Kyoto, Japan.

²⁹ **Park, Y.S.** (2018, February). *Assessing clinical skills of graduating medical students: Evaluating the assessment structure and reliability of the University of Tokyo Post-Clinical Clerkship Examination.* Medical Education Lecture, University of Tokyo, Tokyo, Japan.

²⁸ **Park, Y.S.** (2018, February). *Post-clinical clerkship examinations.* Japan Society for Medical Education, Tokyo, Japan.

²⁷ **Park, Y.S.** (2018, January). *Aligning medical education with outcomes-based research.* Faculty of Medicine Professors Meeting, University of Tokyo, Tokyo, Japan.

²⁶ **Park, Y.S.** (2018, January). *Curricular trends in U.S. undergraduate medical education: Examples from pre-clinical teaching of physical examination and preparatory curriculum for transition to residency.* Medical Education Lecture, University of Tokyo, Tokyo, Japan.

- ²⁵ Tekian, A., & **Park, Y.S.** (2018, December). *Master's degree in health professions education programs in the world*. Meeting for Certificate / Master Program in Medical Education in Japan, University of Kyoto, Kyoto, Japan.
- ²⁴ **Park, Y.S.** (2017, December). *Translational science and alignment of medical education with outcomes*. Department of Otolaryngology, University of Tokyo, Tokyo, Japan.
- ²³ **Park, Y.S.** (2017, December). *Translational science and validity in medical education: Insights from workplace-based assessments and assessment systems*. Medical Education Lecture, University of Tokyo, Tokyo, Japan.
- ²² **Park, Y.S.** (2017, November). *Assessing learners using mastery learning: Issues in validity, standard setting, and applications*. Medical Education Lecture, University of Tokyo, Tokyo, Japan.
- ²¹ **Park, Y.S.** (2017, September). *Validity studies on the assessment of clinical reasoning skills using patient notes*. Medical Education Lecture, University of Tokyo, Tokyo, Japan.
- ²⁰ **Park, Y.S.** (2017, May). *Gathering validity evidence for assessments: Developing, planning, and analyzing data*. Second Annual Stanford Innovations in Medical Education Conference (SIMEC II), Palo Alto, CA.
- ¹⁹ **Park, Y.S.** (2017, February). *Validity research in medical education as translational science: Rotation evaluations and blood transfusion training*. Stanford University School of Medicine, Department of Anesthesia Grand Rounds Lecture, Palo Alto, CA.
- ¹⁸ **Park, Y.S.** (2016, February). *Hospital workers' willingness to work during a pandemic: Trends and implications*. The 6th Annual Hospital Disaster Planning, Preparations and Response Symposium: An All-Hazards Approach, Miami, FL.
- ¹⁷ **Park, Y.S.** (2015, December). *Validity research in medical education as translational science*. Copenhagen Academy for Medical Education and Simulation, University of Copenhagen, Denmark.
- ¹⁶ **Park, Y.S.** (2015, December). *Applications of latent variable models in medical education and medical social sciences*. Copenhagen Academy for Medical Education and Simulation, University of Copenhagen, Denmark.
- ¹⁵ **Park, Y.S.**, Hurm, M., Xing, K., Anderson, L., Kamin, C., & Yudkowsky, R. (2015, June). *Investigating psychometric properties of scoring based on live interaction and videotaped observation*. The Annual Meeting of Association of Standardized Patient Educators, Denver, CO.

- ¹⁴ **Park, Y.S.** (2015, May). *Correlations, reliability, and confidence intervals*. The Technical Advisory Committee, Chicago Public Schools, Chicago, IL.
- ¹³ **Park, Y.S.** (2015, April). *Covariate and mixture extensions of diagnostic classification models*. The Annual Meeting of the National Council on Measurement in Education, Chicago, IL.
- ¹² **Park, Y.S.** & Tekian, A. (2014, December). *Establishing defensible passing standards: Standard setting*. The Faculty of Medical Sciences, University of Warmia and Mazury, Olsztyn, Poland.
- ¹¹ **Park, Y.S.** & Tekian, A. (2014, December). *Developing and evaluating assessments: Test development, item analysis, and psychometrics*. The Faculty of Medical Sciences, University of Warmia and Mazury, Olsztyn, Poland.
- ¹⁰ **Park, Y.S.** (2014, October). *Evaluating the reliability of teacher observations: REACH students system*. The Chicago Public Schools, Chicago, IL.
- ⁹ **Park, Y.S.** (2014, March). *Methods to gather validity evidence for the Nephrology Milestones*. The semiannual meeting of the American Society of Nephrology, Chicago, IL.
- ⁸ **Park, Y.S.** (2013, June). *Hierarchical rater models for evaluation differences in modes of observation*. Pearson VUE, Performance Assessment Research Group, Chicago, IL.
- ⁷ **Park, Y.S.** (2013, June). *Investigating psychometric properties of scoring based on live interaction and videotaped observation: Focusing on communication and interpersonal skills*. The Annual Meeting of the Association of Standardized Patient Educators, Atlanta, GA.
- ⁶ **Park, Y. S.** (2012, February). *Methods to monitor high stakes performance assessments for health professionals*. The International Conference on Research and Training in Health Professions Education (ICON-RIPE), Belgaum, India.
- ⁵ **Park, Y.S.** (2011, May). *Examining classification accuracy under rater drift*. The Department of Human Development Colloquium, Teachers College, Columbia University.
- ⁴ **Park, Y. S.** (2010, November). *Improving hospital workers' willingness to work during a pandemic disaster: A multilevel analysis*. The Pan American Health Organization, World Health Organization, Washington, D.C.
- ³ **Park, Y. S.** (2010, August). *Measuring risk and interpreting its effect on perceptions of climate change*. The Department of Social Studies Education, Teachers College, Columbia University.

² **Park, Y. S.** (2010, March) *Item response theory parameter estimation: BILOG, R, Stata, and WinBUGS*. Teachers College, Columbia University.

¹ **Park, Y. S.** (2009, November) *Analyzing rater behavior in constructed response scoring: A view from latent class signal detection theory*. The Department of Human Development Colloquium, Teachers College, Columbia University.

PEER-REVIEWED CONFERENCE PRESENTATIONS

Paper presentations

- ⁵⁶ Tekian, A., Borhani, M., Tilton, S., Abasolo, E., & **Park, Y. S.** (2018, May). *What do quantitative ratings and qualitative comments tell us about general surgery residents' progress toward independent practice? Evidence from a 5-year longitudinal cohort*. Paper presented at the Surgical Education Week of the Association for Surgical Education, Austin, TX.
- ⁵⁵ **Park, Y. S.**, & Lee, Y.-S. (2018, April). *Multidimensional higher-order models for skills diagnosis: Descriptive and explanatory approaches*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, New York, NY.
- ⁵⁴ **Park, Y. S.**, & Tekian, A. (2018, April). *Synthesizing and reporting learner analytics: Considerations for measurement and validity*. Paper presented at the Annual Meeting of the American Educational Research Association, New York, NY.
- ⁵³ **Park, Y. S.**, Morales, A., Ross, L. P., & Paniagua, M. (2018, April). *Reporting subscore profiles using diagnostic classification models in health professions education*. Paper presented at the Annual Meeting of the American Educational Research Association, New York, NY.
- ⁵² Tanaka, P., Adriano, A., **Park, Y. S.**, & Macario, A. (2018, April). *Development of an Objective Structured Clinical Examination for preparation for the American Board of Anesthesiology APPLIED Certification Examination*. Paper presented at the Annual Meeting of the American Educational Research Association, New York, NY.
- ⁵¹ Tekian, A., & **Park, Y. S.** (2018, April). *Combining qualitative comments and quantitative data: Evidence from a longitudinal cohort from entry to graduation*. Paper presented at the Annual Meeting of the American Educational Research Association, New York, NY.
- ⁵⁰ Bahous, S. A., **Park, Y. S.**, Harris, I., & Tekian, A. (2018, April). *Composite scores and decision making in undergraduate medical education*. Paper presented at the

Annual Meeting of the American Educational Research Association, New York, NY.

- ⁴⁹ **Park, Y. S.**, Hyderi, A., Heine, N., May, W., Nevins, A., Lee, M., Bordage, G., & Yudkowsky, R. (2017, November). *Validity evidence and scoring guidelines for standardized patient encounters and patient notes from a multisite study of clinical performance examinations in seven medical schools*. Paper presented at the Annual Medical Education Meeting of the Association of American Medical Colleges, Boston, MA.
- ⁴⁸ Taylor, D. R., **Park, Y. S.**, Egan, R., Chan, M.-K., Karpinski, J., Touchie, C., Snell, L. S., & Tekian, A. (2017, November). *Equal, a novel rubric to evaluate entrustable professional activities for quality and structure*. Paper presented at the Annual Medical Education Meeting of the Association of American Medical Colleges, Boston, MA.
- ⁴⁷ Damewood, R. B., Blair, P. G., **Park, Y. S.**, Lupi, L. K., Newman, R. W., & Sachdeva, A. (2017, April). *“Taking Training to the Next Level”: The American College of Surgeons Committee on Residency Training Survey*. Paper presented at the Surgical Education Week of the Association of Program Directors in Surgery, San Diego, CA.
- ⁴⁶ **Park, Y. S.**, Lineberry, M., Hyderi, A., Bordage, G., Xing, K., & Yudkowsky, R. (2016, November). *Differential weighting for subcomponent measures of Integrated Clinical Encounter scores based on the USMLE Step-2 CS examination: Effects on composite score reliability and pass-fail decisions*. Paper presented at the Annual Medical Education Meeting of the Association of American Medical Colleges, Seattle, WA.
- ⁴⁵ **Park, Y. S.**, Lee, Y.-S., Xing, K., & Lim, M. (2016, April). *Incorporating latent and observed predictors in cognitive diagnostic models*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, Washington, DC.
- ⁴⁴ **Park, Y. S.**, Zar, F., Norcini, J. J., & Tekian, A. (2016, April). *Contributing to guidelines on the use of competency evaluations in health professions education*. Paper presented at the Annual Meeting of the American Educational Research Association, Washington, DC.
- ⁴³ Yudkowsky, R., **Park, Y. S.**, Hyderi, A., & Bordage, G. (2015, November). *Characteristics and implications of diagnostic justification scores based on the new patient note format of the USMLE Step 2 CS exam*. Paper presented at the Annual Medical Education Meeting of the Association of American Medical Colleges, Baltimore, MD.

- ⁴² **Park, Y. S.**, Lee, Y.-S., & Xing, K. (2015, July). *Mixture higher-order diagnostic classification model with covariates*. Paper presented at the Annual International Meeting of the Psychometric Society, Beijing, China.
- ⁴¹ **Park, Y. S.**, Kim, M. H., & Xing, K. (2015, April). *Effects of scoring designs on rater precision and classification*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, Chicago, IL.
- ⁴⁰ **Park, Y. S.** (2014, October). *Psychometric issues in the measurement of non-cognitive attributes*. Paper presented at the Korea Development Institute (KDI) Human Capital Policy Conference, Seoul, South Korea.
- ³⁹ **Park, Y. S.**, Hurm, M., Xing, K., Anderson, L., Kamin, C., & Yudkowsky, R. (2014, June). *Investigating the psychometric properties of scoring based on live-interaction and videotaped observations: Focusing on communication and interpersonal skills*. Paper presented at the Annual Meeting of the Association of Standardized Patient Educators, Indianapolis, IN.
- ³⁸ **Park, Y. S.**, Kamin, C., & Yudkowsky, R. (2014, May). *Implications for standard setting in communication and interpersonal skills*. Paper presented at the 30th Annual Meeting of The Korean Society of Medical Education, Seoul, South Korea.
- ³⁷ **Park, Y. S.**, Lee, Y.-S., & Seong, T. (2014, April). *Parameterizing covariates affecting attribute classification in Multiple-Groups RDINA*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, Philadelphia, PA.
- ³⁶ Lee, Y.-S., & **Park, Y. S.** (2014, April). *A mixture IRT model analysis in exploring kindergarteners' mathematical strategy*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, Philadelphia, PA.
- ³⁵ Mema, B., **Park, Y. S.**, Lobos, A. T., Writer H., & Kotsakis, A. (2014, April). *Feasibility and validity evidence using a simulation-based OSCE to assess readiness for independent practice in Pediatric Critical Care trainees*. Paper presented at the Annual Meeting of the Ottawa Conference, Ottawa, Canada.
- ³⁴ Aiyer, M., Wang, H., **Park, Y. S.**, Kirwin, C., & Pinson, D. (2014, March). *Second year medical student course performance correlated to step 1 examination*. Paper presented at the Annual Meeting of the Central Group on Educational Affairs, Cleveland, Ohio.
- ³³ **Park, Y. S.**, Lineberry, M., Hyderi, A., Bordage, G., Riddle, J., & Yudkowsky, R. (2013, November). *Validity evidence for a patient note scoring rubric based on the new patient note format of the United States Medical Licensing Examination*. Paper presented at the Annual Meeting of the Association of American Medical Colleges, Philadelphia, PA.

- ³² Lockspeiser, T., Schmitter, P. A., Lane, L., Hanson, J. L., Rosenberg, A. A., & **Park, Y. S.** (2013, November). *Assessing residents' written learning goals and goal writing skill: Validity evidence for the learning goal scoring rubric*. Paper presented at the Annual Meeting of the Association of American Medical Colleges, Philadelphia, PA.
- ³¹ **Park, Y. S.** (2013, June). *Measuring resident progress in the ACGME Next Accreditation System: Are observation-based assessments effective?* Paper presented at the 29th Annual Meeting of The Korean Society of Medical Education, Buyeo, South Korea.
- ³⁰ **Park, Y. S.**, Conley, P., & Reed, E. (2013, April). *An extension of the hierarchical rater model for evaluating differences in mode of observation*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, San Francisco, CA.
- ²⁹ McClellan, C., Donoghue, J., & **Park, Y. S.** (2013, April). *Commonality and uniqueness in teaching practice observation*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, San Francisco, CA.
- ²⁸ Bhat, R., Garg, M., Omron, R., Takenaka, K., & **Park, Y. S.** (2013, March). *Predictors of success in emergency medicine training*. Paper presented as Best of the Best Presentation at the Annual Meeting of the Council of Emergency Medicine Residency Directors, Denver, CO.
- ²⁷ **Park, Y. S.**, Joe, J., & Williams, J. (2012, April). *An extension of the latent class signal detection theory model for differential rater functioning*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, Vancouver, Canada.
- ²⁶ **Park, Y. S.**, Lee, Y.-S., & Seong, T.-J. (2012, April). *An extension of the DINA model using covariates: Examining factors affecting response probability and latent classification*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, Vancouver, Canada.
- ²⁵ Joe, J., **Park, Y. S.**, Brantley, W., Lapp, M., & Leusner, D. (2012, April). *Examining the effect of prompt complexity on rater behavior: A mixed-methods study of GRE*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, Vancouver, Canada.
- ²⁴ **Park, Y. S.**, Stehling-Ariza, T., & Abramson, D. (2011, November). *Examining longitudinal patterns of recovery: A growth mixture modeling approach using posterior mode estimation*. Paper presented at the Annual Meeting of the American Public Health Association (Statistics), Washington, DC.
- ²³ **Park, Y. S.**, Sury, J., & Abramson, D. (2011, November). *Combining cluster and factor analysis to examine the effects of social vulnerability on recovery*. Paper presented

at the Annual Meeting of the American Public Health Association (GIS), Washington, DC.

- ²² **Park, Y. S.**, & Lee, Y.-S. (2011, July). *Mixture higher-order DINA model for differential attribute functioning*. Paper presented at the International Meeting of the Psychometric Society, Hong Kong.
- ²¹ Lee, Y.-S., & **Park, Y. S.** (2011, July). *Application of mixture IRT to multiple strategy CDM analysis*. Paper presented at the International Meeting of the Psychometric Society, Hong Kong.
- ²⁰ **Park, Y.S.**, & Lee, Y.-S. (2011, April). *Investigating item parameter drift using mixture item response theory*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, New Orleans, LA.
- ¹⁹ **Park, Y. S.**, & DeCarlo, L. T. (2011, April). *Effects on classification accuracy under rater drift via latent class signal detection theory and item response theory*. Paper presented at the Annual Meeting of the American Education Research Association, New Orleans, LA.
- ¹⁸ **Park, Y. S.**, Stehling-Ariza T., & Sury, J. (2010, November). *Analysis of rater reliabilities of incomplete designs: A simulation of partially balanced incomplete designs and empirical application*. Paper presented at the Annual Meeting of the American Public Health Association (Statistics), Denver, CO.
- ¹⁷ **Park, Y. S.**, Chandler, T., & Stehling-Ariza, T. (2010, November). *Cognitive diagnostic modeling approach to assess the mastery and the prevalence of specific competencies in a basic emergency preparedness course*. Paper presented at the Annual Meeting of the American Public Health Association (Statistics), Denver, CO.
- ¹⁶ Chandler, T., **Park, Y. S.**, Levin, K. L., Abramson, D., & Morse, S. S. (2010, November). *Impact of online learning on emergency response: An evaluation of an online course*. Paper presented at the Annual Meeting of the American Public Health Association, Denver, CO.
- ¹⁵ Chandler, T., Levin, K. L., **Park, Y. S.**, Sury, J. J., Banister, A., & Bhasker, S. (2010, November). *Dealing with climate change: An evaluation of a national online course*. Paper presented at the Annual Meeting of the American Public Health Association, Denver, CO.
- ¹⁴ **Park, Y. S.**, & Lee, Y.-S. (2010, July). *CTT, IRT, and G-DINA analysis of TIMSS 2007*. Paper presented at the 7th conference of the International Test Commission at the Chinese University of Hong Kong Shatin, Hong Kong.

- ¹³ **Park, Y. S.**, & Lee, Y.-S. (2010, July). *Investigating item drift in TIMSS via cognitive diagnostic modeling*. Paper presented at the 7th conference of the International Test Commission at the Chinese University of Hong Kong Shatin, Hong Kong.
- ¹² Lee, Y.-S., **Park, Y. S.**, & Taylan, D. (2010, July). *A comparative study of attribute mastery between regional entities within the U.S.: An analysis of TIMSS 2007 using cognitive diagnostic modeling*. Paper presented at the 7th conference on the International Test Commission at the Chinese University of Hong Kong Shatin, Hong Kong.
- ¹¹ **Park, Y. S.**, & Lee, Y.-S. (2010, April). *Mixture IRT model comparison using Bayesian methods: An empirical analysis via cognitive diagnosis interview data*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, Denver, CO.
- ¹⁰ **Park, Y. S.**, Lee, Y.-S., & Choi, K. M. (2010, April). *Cognitive diagnostic analysis of TIMSS 2007 Using the DINA model: A multilevel comparison of high, average, and low performance*. Paper presented at the Annual Meeting of the American Educational Research Association, Denver, CO.
- ⁹ Chandler, T., & **Park, Y. S.** (2010, April). *The incorporation of hands-on tasks in an online course: An analysis of a blended learning environment*. Paper presented at the Annual Meeting of the American Educational Research Association, Denver, CO.
- ⁸ Kim, G., Lee, Y.-S., & **Park, Y. S.** (2010, April). *Multiple imputation with fully conditional specification approach: Estimation of reliability coefficient with missing data*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, Denver, CO.
- ⁷ **Park, Y. S.**, & Lee, Y.-S. (2010, January). *International comparison of content and cognitive clustering in TIMSS 2003 8th grade mathematics*. Paper presented at the Annual Meeting of the Hawaii International Conference on Education, Honolulu, HI.
- ⁶ Lee, Y.-S., & **Park, Y. S.** (2010, January). *An analysis of mathematical performance in 4th grade American students to the international average via TIMSS*. Paper presented at the Annual Meeting of the Hawaii International Conference on Education, Honolulu, HI.
- ⁵ **Park, Y. S.**, Stehling-Ariza, T., & Abramson, D. (2009, November). *Multiple imputation via chained equations of SF-12 health scores for a longitudinal study of displaced population from hurricane Katrina*. Paper presented at the Annual Meeting of the American Public Health Association, Philadelphia, PA.

- ⁴ **Park, Y. S.**, Banister, A., & Abramson, D. (2009, November). *Constructed response scoring application based on signal detection theory to improve precision of rater effect: Analysis of life story for victims of hurricane Katrina*. Paper presented at the Annual Meeting of the American Public Health Association, Philadelphia, PA.
- ³ Abramson, D., Stehling-Ariza, T., & **Park, Y. S.** (2009, November). *Housing as a recovery measure: A survival analysis of time to stable housing among a post-Katrina cohort*. Paper presented at the Annual Meeting of the American Public Health Association, Philadelphia, PA.
- ² Chandler, T., Morse, S., & **Park, Y. S.** (2009, November). *An evaluation of national online emergency preparedness course*. Paper presented at the Annual Meeting of the American Public Health Association, Philadelphia, PA.
- ¹ Lee, Y.-S., Choi, K.-M., & **Park, Y. S.** (2009, April). *A comparison between the U.S. and Korea in the TIMSS 8th grade mathematics assessment: An application of cognitive diagnostic modeling*. Paper presentation at the Annual Meeting of the American Education Research Association, San Diego, CA

Posters / abstracts

- ³⁵ Park, M. J., Green, J., & **Park, Y. S.** (2018, June). *Patterns of change after health education for people with chronic diseases: a decay-of-impact trajectory revealed by Growth Mixture Modeling*. Poster presented at the Research Forum Meeting of the Academy of Communication in Healthcare, Tampa, FL. [Winner of the 2018 ENRICH/Forum Poster Award]
- ³⁴ Gangopadhyaya, A., **Park, Y. S.**, & Yudkowsky, R. (2016, November). *Comparing residents' communication & interpersonal skills between telemedicine & face-to-face encounters*. Abstract presented at the Annual Medical Education Meeting of the Association of American Medical Colleges, Seattle, WA.
- ³³ Luna-Bazaldua, D. A., Lee, Y.-S., & **Park, Y. S.** (2016, April). *Development of a reparameterized compensatory cognitive diagnostic model with covariates*. Poster presented at the Annual Meeting of the American Education Research Association, Washington, DC.
- ³² Xing, K., **Park, Y. S.**, & Thorkildsen, T. (2016, April). *Regressing multiple predictors into a cognitive diagnostic model*. Poster presented at the Annual Meeting of the National Council on Measurement in Education, Washington, DC.
- ³¹ **Park, Y. S.**, Kamin, C., Kim, G., Hyderi, A., & Yudkowsky, R. (2015, November). *Differences in expectations of passing standards in communication skills for pre-clinical and clinical medical students*. Poster presented at the Annual Medical

Education Meeting of the Association of American Medical Colleges, Baltimore, MD.

- ³⁰ Xing, K., **Park, Y. S.**, & Thorkildsen, T. (2015, July). *Modeling online social networking behaviors: A multidimensional mixture IRT approach*. Poster presented at the Annual International Meeting of the Psychometric Society, Beijing, China.
- ²⁹ Xing, K., **Park, Y. S.**, & Thorkildsen, T. (2015, April). *Application of mixture IRT to online social networking behaviors*. Poster presented at the Annual Meeting of the National Council on Measurement in Education, Chicago, IL.
- ²⁸ Porteous, H., **Park, Y. S.**, Marsh, S., Bailey, J., & Manjarrez E. (2015, March). *Using an evidence based computerized clinical decision alert to reduce unnecessary blood transfusions in stable hospitalized patients and increase cost savings associated with needless blood transfusion*. Poster presented at the Society of Hospital Medicine's Annual Meeting, National Harbor, MD.
- ²⁷ Yudkowsky, R., **Park, Y. S.**, Hyderi, A., Kincaid, O., Khan, A., Gangopadhyaya, A., Rajagopal, N., Bordage, G. (2014, November). *Characteristics and implications of diagnostic justification scores based on the new patient note format of the USMLE Step 2 CS Exam*. Oral abstract presented at the Medical Education Meeting of the Association of American Medical Colleges, Chicago IL.
- ²⁶ Knox, A., Tekian, A., Williams, S., Reddy, S., & **Park, Y. S.** (2014, November). *Development of standardized narrative cases based on the ACGME professionalism milestones – A “how to” guide*. Oral abstract presented at the Medical Education Meeting of the Association of American Medical Colleges, Chicago IL.
- ²⁵ **Park, Y. S.**, & Lee, Y.-S. (2014, July). *Analysis of covariates using the TIMSS data based on Multiple-Groups Higher-Order Reparameterized DINA model*. Poster presented at the Annual Meeting of the International Test Commission, San Sebastian, Spain.
- ²⁴ **Park, Y. S.**, & Xing, K. (2014, April). *Evaluating and adjusting for rater effects in standard setting using the Angoff method*. Poster presented at the Annual Meeting of the American Educational Research Association, Philadelphia, PA.
- ²³ **Park, Y. S.**, & Lee, Y.-S. (2014, January). *Studying the effect of covariates on mathematics skill mastery: Analysis of TIMSS 4th grade mathematics using the Multiple-Groups RDINA model*. Poster presented at the Annual Meeting of the Hawaii International Conference in Education, Honolulu, HI.
- ²² Yudkowsky, R., **Park, Y. S.**, Riddle, J., Palladino, C., & Bordage, G. (2013, November). *Comparing the validity of clinically discriminating and thoroughness checklists*. Poster presented at the Annual Meeting of the Association of American Medical Colleges, Philadelphia, PA.

- ²¹ **Park, Y. S.**, Kamin, C., & Yudkowsky, R. (2013, August). *Setting passing standards for communication and interpersonal skills*. Poster presented at the 11th Annual Clinical Education and Assessment Chicago Style Conference, Chicago, IL.
- ²⁰ Yudkowsky, R., **Park, Y. S.**, Riddle, J., Palladino, C., & Bordage, G. (2013, June). *Comparing the validity of clinically discriminating versus traditional "thoroughness" checklists*. Oral abstract presented at the Annual Meeting of the Association of Standardized Patient Educators, Atlanta, GA.
- ¹⁹ Kang, W. S., **Park, Y. S.**, Im, S. H., Jung, D. C., Im, S. A., & Kim, P. A. (2013, June). *Does a medical humanities curriculum lead to improved outcomes?* Poster presented at the 29th Annual Meeting of The Korean Society of Medical Education, Buyeo, South Korea.
- ¹⁸ Mitchell, D., Blood, A., & **Park, Y.S.** (2013, June). *A multi-sourced needs assessment: Tailoring simulation-based educational content for pediatric residents*. Poster presented at The University of Chicago Pediatric Research Day, Chicago, IL.
- ¹⁷ Blood, A., **Park, Y. S.**, Lukas, & R., Brorson, J. (2013, April). *The reliability of a neurology clerkship objective structured clinical examination (OSCE) as examined through a generalizability study*. Poster presented at the Annual Meeting of the National Council on Measurement in Education, San Francisco, CA.
- ¹⁶ **Park, Y. S.**, Kamin, C. S., Kang W. S., Kim, G., & Yudkowsky, R. (2013, April). *Examining case specificity in communication and interpersonal skills using testlet response theory*. Poster presented at the Annual Meeting of the American Education Research Association, San Francisco, CA.
- ¹⁵ Lee, Y.-S., **Park, Y. S.**, & Song, Y. (2013, April). *Examining the mastery of science skills using the 4th grade science TIMSS*. Poster presented at the Annual Meeting of the National Association for Research in Science Teaching, Rio Grande, Puerto Rico.
- ¹⁴ Mitchell, D. L., Blood, A., & **Park, Y. S.** (2013, April). *A multi-source needs assessment: Tailoring simulation-based educational content for pediatric residents*. Poster presented at the annual meeting of the International Pediatric Simulation Symposia and Workshops, New York, NY.
- ¹³ Banayan, J., Blood, A., **Park, Y. S.**, & Scavone, B. (2013, April). *A modified Delphi method to create a scoring system for performance in maternal cardiac arrest*. Poster presented at the Annual Meeting of the Society for Obstetric Anesthesia and Perinatology, San Juan, Puerto Rico.
- ¹² **Park, Y. S.**, Conley, P., & Kang, W. S. (2012, November). *Comparison of item analysis using classical test theory and latent trait models: An application using clinical*

pathophysiology and pathology assessment data. Poster presented at the Annual Meeting of the Association of American Medical Colleges, San Francisco, CA.

- ¹¹ **Park, Y. S.,** & Lee, Y.-S. (2012, July). *Bayesian model comparison approaches in mixture IRT models: An empirical analysis using the TIMSS mathematics assessment.* Poster presented at the 8th conference of the International Test Commission at the University of Amsterdam, Amsterdam, The Netherlands.
- ¹⁰ **Park, Y. S.,** Stehling-Ariza, T., Sury, J., & Abramson, D. (2010, November). *A cluster analysis on barriers to evacuate.* Poster presented at the Annual Meeting of the American Public Health Association, Denver, CO.
- ⁹ **Park, Y. S.,** Behrouz, L., Stehling-Ariza, T., Burnette, K., & Sury, J. J. (2010, November). *Improving hospital workers' willingness to work: Using group-specific differences to investigate associations between barriers and interventions.* Poster presented at the Annual Meeting of the American Public Health Association, Denver, CO.
- ⁸ Stehling-Ariza, T., **Park, Y. S.,** & Banister, A. (2010, November). *Longitudinal changes in mental health associated with increased tobacco and alcohol use in a displaced population.* Poster presented at the Annual Meeting of the American Public Health Association, Denver, CO.
- ⁷ Abramson, D. M., Stehling-Ariza, T., & **Park, Y. S.** (2010, November). *Analyzing a neighborhood effect on post-Katrina recovery: Does a community's cohesion and control matter?* Poster presented at the Annual Meeting of the American Public Health Association, Denver, CO.
- ⁶ **Park, Y. S.,** Kim, G., & Stehling-Ariza. (2010, May). *Bayesian mixture IRT modeling of children's strengths and difficulties questionnaire.* Poster presented at the Annual Symposium on Statistics in Psychiatry at Yale University, New Haven, CT.
- ⁵ **Park, Y. S.,** & DeCarlo, L. T. (2010, April). *Rater drift in constructed response scoring: A longitudinal analysis of rater behavior via latent class signal detection theory.* Poster presented at the Annual Meeting of the National Council on Measurement in Education, Denver, CO.
- ⁴ Stehling-Ariza, T., **Park, Y. S.,** & Sury, J. (2009, November). *Predicting sense of community in a population displaced by Hurricane Katrina.* . Poster presented at the Annual Meeting of the American Public Health Association, Philadelphia, PA.
- ³ **Park, Y. S.,** & DeCarlo, L. T. (2009, August). *On null categories in constructed response scoring: A view from a latent class signal detection model.* Poster presented at the Annual Meeting of the Joint Annual Convention of the Society for Mathematical Psychology and the European Mathematical Psychology Group at the University of Amsterdam, Amsterdam, Netherlands.

² **Park, Y. S.**, Kim, G., Cho, M.S., & Lee, Y.-S. (2009, April). *An application of mixed Rasch model in assessing K-1 mathematics cognitive diagnostic interview measures*. Poster presented at the Annual Meeting of the National Council on Measurement in Education, San Diego, CA.

¹ Lee, Y.-S., Kim, G., **Park, Y. S.**, & Cho, M. (2009, April). *Diagnostic accuracy of mCLASS: Math technology-based assessment system and high-stakes testing for grade 3 mathematics*. Poster presented at the Annual Meeting of the Society for Research in Child Development, Denver, CO.

TEACHING

Course faculty

- 2013 – present **Course Faculty, Master of Science in Patient Safety Leadership (MPSL)**, College of Medicine, University of Illinois at Chicago
- *Quantitative Methods* (Onsite residency course; PSL 501)
- 2012 – present **Course Faculty, Master in Health Professions Education (MHPE)**, College of Medicine, University of Illinois at Chicago
- *Instruction and Assessment* (Fall; MHPE 502 core course)
- *Test Development* (Fall; MHPE elective)
- *Generalizability Theory* (Fall; MHPE independent seminar)
- *Intermediate Quantitative Data Analysis* (Spring; MHPE elective)
- *Introduction to Quantitative Data Analysis* (Summer; MHPE elective)
- *Assessment Methods* (Spring; MHPE elective)
- 2012 – present **Course Faculty, Doctor of Philosophy (Ph.D.) program in Health Professions Education**, College of Education, University of Illinois at Chicago
- *Doctoral Research Project* (Fall, Spring, and Summer; CI 593)
- 2009 **Instructor, Master in Public Health (MPH)**, National Center for Disaster Preparedness, Mailman School of Public Health, Columbia University
- *Statistical Treatment of Data* (Summer course for MPH students)

Course faculty: International programs

- 2015 – present **Course Faculty, Master of Health Professions Education (MHPE), Taif University, Taif, Saudi Arabia**
- *Instruction and Assessment in Health Professions Education* (Summer MHPE 402502 core course)
- 2013 – present **Course Faculty, Master of Medical Science in Medical Education (Ms.Med), King Abdulaziz University, Jeddah, Saudi Arabia**
- *Instruction and Assessment in Health Professions Education* (Fall; MEED 800 / MEED 825 core course)
- 2012 – 2013 **Course Faculty, Master in Health Professions Education (MHPE), KLE University, Belgaum, India**
- *Assessment in Health Professions Education* (Spring and Fall core course)

Professional workshops

- 2017 *Generalizability Theory*, Invited workshop for the Japan Society for Medical Education, Tokyo, Japan. [November 19, 2017]
- 2017 *Understanding generalizability theory – A primer*, Invited conference workshop presented at the Annual Meeting of the Association of Standardized Patient Educators (jointly with A. Blood), Tampa, FL. [June 5, 2017]
- 2017 *Understanding validity and reliability in standardized patient-based assessment – Demystifying tricky concepts*, Invited conference workshop presented at the Annual Meeting of the Association of Standardized Patient Educators (jointly with J. Miller), Alexandria, VA. [June 5, 2017]
- 2016 *Understanding generalizability theory – A primer*, Invited conference workshop presented at the Annual Meeting of the Association of Standardized Patient Educators (jointly with R. Yudkowsky), Tampa, FL. [June 27, 2016]
- 2016 *Understanding validity and reliability in standardized patient-based assessment – Demystifying tricky concepts*, Invited pre-conference workshop presented at the Annual Meeting of the Association of Standardized Patient Educators (jointly with J. Miller), Tampa, FL. [June 26, 2016]
- 2015 *Standard setting: Statistical considerations for examinee-based methods*, Workshop presented at the Copenhagen Academy for Medical Education and Simulation, University of Copenhagen, Denmark. [December 9, 2015]
- 2015 *Understanding generalizability theory – A primer*, Workshop presented at the Annual Meeting of the Association of Standardized Patient Educators (jointly with A. Blood, and R. Yudkowsky), Denver, CO. [June 15, 2015]
- 2015 *How to establish defensible passing standards for local performance tests*, Workshop presented at the Annual Meeting of the Association of Standardized Patient Educators (jointly with R. Yudkowsky, C. Nicholas, and J. Blatt), Denver, CO. [June 14, 2015]
- 2015 *Understanding generalizability theory: How to read and understand data arising from the use of useful measurement method without needing a PhD in psychometrics*, Workshop presented at the Annual Meeting of the International Meeting on Simulation in Healthcare (jointly with M. Lineberry, M. Adler, A. Calhoun, and M. McBride), San Francisco, CA. [January 12, 2015]

- 2014 *How to establish defensible passing standards for local performance tests*, Workshop presented at the Annual Meeting of the Association of Standardized Patient Educators (jointly with R. Yudkowsky, C. Nicholas, and J. Blatt), Indianapolis, IN. [June 22, 2014]
- 2014 *Reliability and validity in SP-based assessment – Demystifying tricky concepts*, Workshop presented at the Annual Meeting of the Association of Standardized Patient Educators (jointly with A. Blood), Indianapolis, IN. [June 24, 2014]
- 2014 *Understanding generalizability theory: How to read and understand data arising from the use of useful measurement method without needing a PhD in psychometrics*, Workshop presented at the Annual Meeting of the International Meeting on Simulation in Healthcare (jointly with M. Adler, A. Calhoun, and M. McBride), San Francisco, CA. [January 27, 2014]
- 2014 *Comparability in standards across four campuses*, University of Illinois College of Medicine: Conducted a workshop session for College of Medicine (Chicago, Peoria, Rockford, Urbana) students and student leaders on standard setting and instructional methods. [January 15, 2014]
- 2013 *Minimizing threats to valid clinical performance assessment*, University of Illinois College of Medicine: Conducted a full-day workshop for College of Medicine (Chicago, Peoria, Rockford, Urbana) clinical faculty (M3 and M4 clerkship directors) on rater training, formative assessment, and aggregating multiple assessment scores into a clinical grade. [October 2, 2013]
- 2013 *Psychometrics: Test scoring and item analysis*, University of Illinois College of Medicine: Conducted a full-day workshop for College of Medicine (Chicago, Peoria, Rockford, Urbana) testing support units on psychometrics concepts, test scoring, and item analysis. [July 30, 2013]
- 2013 *Test development: Blueprinting and standard setting*, University of Illinois College of Medicine: Conducted a full-day workshop for basic science course directors (M1 and M2) on alignment of assessments across University of Illinois College of Medicine campuses (Chicago, Peoria, Rockford, Urbana), including blueprinting and standard setting. [April 23, 2013]

SERVICE

Service to the Profession

- 2018 – 2021 Vice-President, American Educational Research Association (AERA), Division I (elected for three-year term)
- 2017 Faculty, American Educational Research Association (AERA) Capstone Conference
- 2016 – 2017 Program Chair, American Educational Research Association (AERA), Division I (April 2017 AERA Annual Meeting)
- 2016 – 2018 Committee Member, Research in Medical Education (RIME), Program Planning Committee (elected for 3-year service), Association of American Medical Colleges
- 2016 – present Editorial Board Member, *Frontiers in Applied Mathematics and Statistics*
- 2016 – present Editorial Board Member, *Frontiers in Psychology*
- 2016 – present Reviewer, *Methodology, Measurement, and Statistics (MMS)* Program, National Science Foundation (NSF)
- 2016 – present External Reviewer, *Research in Clinical Assessment Grant*, Medical Council of Canada
- 2015 – present Committee Member, New Investigator Award Committee, American Educational Research Association (AERA), Division I
- 2015 – present Reviewer, *Group on Educational Affairs (GEA) National Grant Program*, Association of American Medical Colleges
- 2015 – present Editorial Board Member, *Advances in Simulation*
- 2014 – present Editorial Board Member, *Teaching and Learning in Medicine*
- 2013 – present Associate Editor, *KAERA Research Brief: Educational Measurement*
- 2013 – present Member, Grants and Research Committee, Association of Standardized Patient Educators (ASPE)
- 2011 – present Reviewer for 15 peer-reviewed journals:
Academic Medicine, Advances in Health Sciences Education, Applied Psychological Measurement, BMC Medical Education, Disaster Medicine and Public Health Preparedness, Educational Psychology, Health

Education & Behavior, International Journal of Testing, Journal of Educational Evaluation, Journal of Educational Measurement, Journal of Thoracic and Cardiovascular Surgery, Medical Decision Making, Preventive Medicine, Simulation in Healthcare, Teaching and Learning in Medicine

Service to the University

2017 – 2020 Member, University Faculty Senate (re-elected, 2nd term)

2014 – 2017 Member, University Faculty Senate (elected)

Service to the College of Medicine

2013 – present Consultant, Admissions Committee: Providing consultation services and quantitative data analysis to the Admissions Committee on refining policies on guaranteed admission, conditional admission, and selection of measures for improving admission

2012 – present Consultant, Testing Services: Providing consultation services to the Testing Services on test development, item analysis, and research

Service to the Department of Medical Education

2016 – present Member, Advisory Committee

2015 – 2016 Chair, Resources and Infrastructure Committee (Strategic Planning)

2014 – 2015 Program Chair, 2015 MHPE Conference Planning Committee

2013 – present Member, MHPE Thesis Award Committee

2013 – present Member, Admissions Committee for MHPE and PhD applicants

2013 – 2014 Member, Strategic Planning: Research and Scholarship Task Force

2013 Member, Social Science Faculty Search Committee

2012 – 2014 Member, Graduate Studies Committee

2012 – 2013 Moderator, DME Quantitative Group

2012 Member, Simulation Faculty Search Committee