

Curriculum Vitae Yoon Soo Park, PhD

Harvard Medical School
Director of Health Professions Education Research
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EDUCATION

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

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

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

PROFESSIONAL EXPERIENCE

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| 2020 – present | Director of Health Professions Education Research , Massachusetts General Hospital, Boston, MA |
| 2020 – present | Member of the Faculty , Harvard Medical School, Harvard University, Boston, MA |
| 2020 – present | Adjunct Professor of Health Professions Education , Massachusetts General Hospital (MGH) Institute of Health Professions, Boston, MA |
| 2019 – 2020 | Acting Director of Graduate Studies , Department of Medical Education, University of Illinois – College of Medicine at Chicago, Chicago, IL |
| 2018 – 2020 | Associate Head , Department of Medical Education, University of Illinois – College of Medicine at Chicago, Chicago, IL |
| 2018 – 2020 | Director of Research, Office of Educational Affairs , University of Illinois – College of Medicine at Chicago, Chicago, IL |
| 2017 – 2020 | 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
- 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

RESEARCH INTERESTS

Health professions education, data science, psychometrics, validity, assessment of learning, disaster medicine, public health, applied statistics

HONORS

- 2019 **Affiliate Member**, American College of Surgeons (ACS) Academy of Master Surgeon Educators. Recognition for national and international leaders who advance the science and practice of surgical education. Affiliate membership is for non-physician researchers.
- 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 **Research in Medical Education (RIME) Best Paper Award**, Association of American Medical Colleges (AAMC).
- 2014 **College of Medicine – Departmental Rising Star Award**, University of Illinois – College of Medicine at Chicago.
- 2014 **Alicia Cascallar Award**, National Council on Measurement in Education (NCME).
- 2011 **Educational Testing Service Presidential Award**, Educational Testing Service (ETS).

GRANT/CONTRACT AWARDS

Active Grants/Contracts

- ²⁸ Smith, B., **Park, Y. S.**, Holmboe, E., Hamstra, S., Yamazaki, K., Leith, E., Tekian A., & Brooke, B. S. 7/1/2020 – 6/30/2022
National Board of Medical Examiners (NBME) – *The Edward J. Stemmler Medical Education Research Fund*
“*Predicting Physicians’ Patient Care Outcomes in Practice Using the ACGME Milestones Assessment Data in Training.*”
Role: Co-Investigator
- ²⁷ **Park, Y. S.**, Marvin, R., & Tekian, A. 4/1/2020 – 3/31/2022
American Board of Psychiatry and Neurology (ABPN) – *Research Award*
“*Developing Practice-Based Research Networks in Psychiatry Education to Advance the Validity of Assessment Systems for Entrustable Professional Activities.*”
Role: Principal Investigator
- ²⁶ Hirshfield, L. E., **Park, Y. S.**, Underman, K. 7/1/2019 – 6/30/2021
National Board of Medical Examiners (NBME) – *The Edward J. Stemmler Medical Education Research Fund*
“*Standardized Patient Assessment of Communication Skills: A standardized examinee audit study of gendered and racial differences.*”
Role: Co-Investigator

Completed Grants/Contracts

- ²⁵ **Park, Y. S.**, Marvin, R., & Tekian, A. 4/1/2018 – 3/31/2021
American Board of Psychiatry and Neurology (ABPN) – *Research Award*
“*Evaluating the Validity of Assessment Systems in Psychiatry Residency Programs.*”
Role: Principal Investigator
- ²⁴ **Park, Y. S.** 8/1/2019 – 12/31/2020
United Nations Education Commission – *The Education Workforce Initiative*
“*Evaluating Teaching Effectiveness: High-Touch High-Tech Adaptive Learning Analytics Project in Vietnam*”
Role: Principal Investigator
- ²³ Sachdeva, A. K., Stefanidis, D., Rush, R. M., Aggarwal, R., Blair, P., & **Park, Y. S.**
8/1/2019 – 3/31/2020
Department of Defense ((DoD, Award W81XWH-14-C-0101)
“*Advanced Modular Manikin™ Study*”
Role: Statistician (American College of Surgeons – Subcontract Award)

- ²² Schwartz, A., & **Park, Y. S.**, Hamstra, S., Schumacher, D., Mink, R., & Carraccio, C.
7/1/2019 – 6/30/2020
Association of American Medical Colleges (AAMC)
“*Comparison of Approaches to Modeling Competency-Based Assessment Data*”
Role: Co-Investigator
- ²¹ 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
- ²⁰ Sufian, S., Michel, J., Hyderi, A., & **Park, Y. S.**, 1/1/2018 – 12/31/2019
National Endowment for the Humanities (NEH) – *Grant Award*
“*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. &
McGarvey, J., & **Park, Y. S.** 1/1/2019 – 12/31/2019
University of Illinois–College of Medicine at Peoria –*Dean’s Innovation Award in
Medical Student Education*
“*Phase II: Use of Interactive Intelligent Avatar-Based Simulation Cases to Learn
High Value Care*”
Role: Co-Investigator
- ¹⁸ Sullivan, M., Sachdeva, A., Bordage, G., & **Park, Y. S.**, 1/1/2013 – 6/30/2019
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
- ¹⁷ Skochelak, S., **Park, Y. S.**, & Dekhtyar, M. 10/1/2017 – 5/31/2019
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
- ¹⁶ 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

- 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)
“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)
“Post-smoothing by kernel equating to compare college scholastic aptitude test performance between offices of education via multilevel methods”
 Role: Co-Principal Investigator

PEER-REVIEWED JOURNAL ARTICLES

- ¹⁵⁹ Lin, Q., Xing, K., & **Park, Y. S.** (in press). Measuring skill growth and evaluating change: Unconditional and conditional approaches to latent growth cognitive diagnostic models. *Frontiers in Psychology*.
- ¹⁵⁸ Tolsgaard M. G., Boscardin C. K., **Park, Y. S.**, Cuddy, M. M., & Sebok-Syer, S. S. (in press). The role of data science and machine learning in Health Professions Education: Practical applications, theoretical contributions, and epistemic beliefs. *Advances in Health Sciences Education*.
- ¹⁵⁷ Tanaka, P., **Park, Y. S.**, Roby, J., Ahn, K., Kakazu, C., Udani, A., & Macario, A. (in press). Milestone learning trajectories of residents at five anesthesiology residency programs. *Teaching and Learning in Medicine*.
- ¹⁵⁶ Ryan, M. S., Lee, B., Richards, A., Perera, R., Haley, K., Rigby, F. B., **Park, Y. S.**, & Santen, S. (in press). Evaluating the reliability and validity evidence of the RIME (Reporter-Interpreter-Manager-Educator) model for summative assessments across clerkships. *Academic Medicine*.
- ¹⁵⁵ Ryan, M. S., Richards, A., Perera, R., **Park, Y. S.**, Stringer, J. K., Waterhouse, E., Dubinsky, B., Khamishon, & Santen, S. (in press). Generalizability of the Ottawa Surgical Competency Operating Room Evaluation (O-SCORE) scale to assess medical student performance of the Core EPAs in the workplace. *Academic Medicine*.
- ¹⁵⁴ Jacobsen, M. E., Gustafsson A., Jørgensen, P. G., **Park, Y. S.**, Konge, L. (in press). Practicing procedural skills in knee arthroscopy is more effective than basic psychomotor training: A randomized trial. *The Orthopaedic Journal of Sports Medicine*.
- ¹⁵³ Ortega, P., López-Hinojosa, I., **Park, Y. S.**, Girotti, J. A. (in press). Medical Spanish Musculoskeletal and Dermatologic Educational Module. *MedEdPORTAL*.
- ¹⁵² **Park, Y. S.**, Zaidi, Z., & O'Brien, B. C. (2020). What constitutes science in educational research? Applying rigor in our research approaches. *Academic Medicine*. Advance online publication (August 4, 2020). doi: 10.1097/ACM.0000000000003636
- ¹⁵¹ Kirley, K., Hayer, R., Khan, T., Johnson, E., Sanchez, E. S., Kosowicz, L., Terry, V., Henderson, D., Krebsbach, C., **Park, Y. S.**, Dekhtyar, M., & Williams, B. C. (2020). Expanding the traditional history and physical examinations to address chronic diseases and social needs: a multi-site randomized control trial of four medical schools. *Academic Medicine*. Advance online publication (August 4, 2020). doi: 10.1097/ACM.0000000000003640

- ¹⁵⁰ Alkhalaf, A. M., Tekian, A., & **Park, Y. S.** (2020). Needs assessment for developing a doctorate of clinical psychology program in Saudi Arabia. *World Journal of Advance Health Research*, 4(4), 127-144.
- ¹⁴⁹ Alwadei, A. H., Tekian, A., Brown, B. P., Alwadei, F. H., **Park, Y. S.**, Alwadei, S. H., & Harris, I. B. (2020). Effectiveness of an adaptive eLearning intervention on dental students' learning in comparison to traditional instruction. *Journal of Dental Education*. Advance online publication (July 23, 2020). doi: 10.1002/jdd.12312
- ¹⁴⁸ Mema, B., Mylopoulos, M., Tekian, A., & **Park, Y. S.** (2020). Using learning curves to identify and explain growth patterns of learners in bronchoscopy simulation: A mixed methods study. *Academic Medicine*. Advance online publication (July 14, 2020). doi: 10.1097/ACM.0000000000003595
- ¹⁴⁷ Taylor, D., **Park, Y. S.**, Smith, C., ten Cate, O., & Tekian, A. (2020). Constructing approaches to entrustable professional activity development that deliver valid descriptions of professional practice. *Teaching and Learning in Medicine*. Advance online publication (July 7, 2020). doi: 10.1080/10401334.2020.1784740
- ¹⁴⁶ Anderson, S. A., **Park, Y. S.**, Sørensen, M. S., & Konge, L. (2020). Reliability assessment of surgical technical skills is dependent on context: an exploration of different variables using generalizability theory. *Academic Medicine*. Advance online publication (June 23, 2020). doi: 10.1097/ACM.0000000000003550
- ¹⁴⁵ Lineberry, L., **Park, Y. S.**, Hennessy, S., & Ritter, E. M. (2020). The Fundamentals of Endoscopic Surgery (FES) Skills Test: Factors associated with first-attempt scores and pass rate. *Surgical Endoscopy*. Advance online publication (June 9, 2020). doi: 10.1007/s00464-020-07690-6
- ¹⁴⁴ Natt, N., Dekhtyar, M., **Park, Y. S.**, & Leep, A. H. (2020). Research report promoting value through patient-centered communication: A multisite validity study of third-year medical students. *Academic Medicine*. Advance online publication (May 26, 2020). doi: 10.1097/ACM.0000000000003519
- ¹⁴³ Vilmann, A. S., Svendsen, M. B. S., Lachenmeier, C., Sondergaard, B., **Park, Y. S.**, Svendsen L. B., Konge, L. (2020). Using computerized assessment in simulated colonoscopy: a validation study. *Endoscopy International Open*. Advance online publication (May 25, 2020). doi: 10.1055/a-1132-5259
- ¹⁴² **Park, Y. S.**, Zar, F. A., & Tekian, A. (2020). Synthesizing and reporting milestones-based learner analytics: Validity evidence from a longitudinal cohort of internal medicine residents. *Academic Medicine*, 95(4), 599-608. doi: 10.1097/ACM.0000000000002959
- ¹⁴¹ Geraghty, J. R., Young, A. N., Berkel, T. D. M., Wallbruch, E., Mann, J., **Park, Y. S.**, Hirshfield, L. E., & Hyderi, A. (2020). Empowering medical students as agents of

curricular change: A value-added approach to student engagement in medical education. *Perspectives on Medical Education*, 9, 60-65.

- ¹⁴⁰ Tanaka, P., **Park, Y. S.**, Liu, L., Varner, C., Kumar, A. H., Sandhu, C., Yumul, R., McCartney, K. T., Spilka, J., & Macario, A. (2020). Consistency of assessment scores of a mock objective structured clinical examination administered to 99 anesthesiology residents at eight institutions. *Anesthesia & Analgesia*. Advance online publication (March 5, 2020). doi: 10.1213/ANE.0000000000004705
- ¹³⁹ Shappell, E., Ahn, J., Podolej, G., Tekian, A., & **Park, Y. S.** (2020). Notes from the field: Automatic item generation, standard setting, and learner performance in mastery multiple choice tests. *Evaluation & the Health Professions*. Advance online publication (March 4, 2020). doi: 10.1177/0163278720908914
- ¹³⁸ MacLeod, A., Ellaway, R. H., Paradis, E., **Park, Y. S.**, Young, M., & Varpio, L. (2020). Being edgy in health professions education. *Academic Medicine*. Advance online publication (February 25, 2020). doi: 10.1097/ACM.0000000000003250
- ¹³⁷ Lloyd, R. B., **Park, Y. S.**, Tekian, A., & Marvin, R. (2019). Understanding assessment systems for clinical competency committee decisions: Evidence from a multisite study of psychiatry residency training programs. *Academic Psychiatry*. Advance online publication (December 23, 2019). doi: 10.1007/s40596-019-01168-x
- ¹³⁶ Jacobsen, M. F., Konge, L., La Cour, M., **Park, Y. S.**, & Thomsen, A. S. (2019). Robot-assisted vitreoretinal surgery improves surgical accuracy compared to manual surgery – A randomized trial. *Retina*. Advance online publication (December 13, 2019). doi: 10.1097/IAE.0000000000002720
- ¹³⁵ **Park, Y. S.**, Konge, L., & Artino, A. (2019). The positivism paradigm of research. *Academic Medicine*. Advance online publication (November 26, 2019). doi: 10.1097/ACM.0000000000003093
- ¹³⁴ **Park, Y. S.**, & Lin, Q. (2019). Review of advances in latent class analysis. *Psychometrika*. Advance online publication (November 25, 2019). doi: 10.1007/s11336-019-09690-5
- ¹³³ Yousef, M. K., Alshawwa, L. A., Farsi, J. M., Tekian, A., & **Park, Y. S.** (2019). Determining defensible cutoff scores for dental courses. *European Journal of Dental Education*. Advance online publication (November 25, 2019). doi: 10.1111/eje.12483
- ¹³² Ortega, P., **Park, Y. S.**, Rodriguez, A. J., & Girotti, J. A. (2019). Evaluation of a Spanish health topics course for undergraduate pre-health Latino students. *Cureus*. Advance online publication (October 2, 2019). doi: 10.7759/cureus.5825

- ¹³¹ Hasty, B. N., Lau, J. N., Tekian, A., Miller, S. E., Shipper, E. S., Merrell, S. B., Lee, E. W., & **Park, Y. S.** (2019). Validity evidence for a mastery-based assessment tool for scrub training knowledge. *Academic Medicine*. Advance online publication (October 1, 2019). doi: 10.1097/ACM.0000000000003007
- ¹³⁰ **Park, Y. S.**, Morales, A., Ross, L., & Paniagua, M. (2019). Reporting subscore profiles using diagnostic classification models in health professions education. *Evaluation & the Health Professions*. Advance online publication (August 28, 2019). doi: 10.1177/0163278719871090
- ¹²⁹ **Park, Y. S.**, & Xing, K. (2019). Rater model using signal detection theory for latent differential rater functioning. *Multivariate Behavioral Research*, 54(4), 492-504.
- ¹²⁸ **Park, Y. S.**, Kamin, C., Son, D., Kim, G., & Yudkowsky, R. (2019). Differences in expectations of passing standards in communication skills for pre-clinical and clinical medical students. *Patient Education and Counseling*, 102(2), 301-308.
- ¹²⁷ Emke, A. R., **Park, Y. S.**, Srinivasan, S., & Tekian, A. (2019). Workplace-based assessments using pediatric critical care entrustable professional activities *Journal of Graduate Medical Education*. Advance online publication (August 11, 2019). doi: 10.4300/JGME-D-18-01006.1
- ¹²⁶ Yudkowsky, R., Hyderi, A., Holden, J., Kiser, R., Stringham, R., Gangopadhyaya, A., Khan, A., & **Park, Y. S.** (2019). Can non-clinician raters be trained to assess clinical reasoning in post-encounter patient notes? *Academic Medicine*. Advance online publication (July 30, 2019). doi: 10.1097/ACM.0000000000002904
- ¹²⁵ Bajwa, N. M., Nendaz, M., Galetto-Lacour, A., Posfay-Barbe, K., Yudkowsky, R., & **Park, Y. S.** (2019). Can professionalism mini-evaluation exercise scores predict residency performance? Validity evidence across five longitudinal cohorts. *Academic Medicine*. Advance online publication (July 30, 2019). doi: 10.1097/ACM.0000000000002895
- ¹²⁴ Chua, I. S., Bogetz, A., Bhansali, P., Long, M., Holbreich, R., Kind, T., Ottolini, M., **Park, Y. S.**, Lineberry, M., & Hirshfield, L. E. (2019). Capturing the patient voice through patient experience debriefs: How medical student-led debrief interviews of hospitalized families influence learning and reflection. *Academic Medicine*. Advance online publication (July 30, 2019). doi: 10.1097/ACM.0000000000002914
- ¹²³ O'Brien, B. C., Karani, R., & **Park, Y. S.** (2019). The moment of discovery: How do you know when you hit a question that's pure gold?" *Academic Medicine*. Advance online publication (July 30, 2019). doi: 10.1097/ACM.0000000000002922
- ¹²² Park, M. J., Green, J., Jung, H. S., & **Park, Y. S.** (2019). Trajectories of change after a health-education program in Japan: Decay of impact in anxiety, depression, and

patient-physician communication. *PeerJ*. Advance online publication (July 15, 2019). doi: <https://doi.org/10.7717/peerj.7229>

- ¹²¹ Jani, P., Blood, A. D., **Park, Y. S.**, Xing, K., Mitchell, D. (2019). Simulation-based curricula for enhanced retention of pediatric resuscitation skills: A randomized controlled study. *Pediatric Emergency Care*. Advance online publication (June 11, 2019). doi: 10.1097/PEC.0000000000001849
- ¹²⁰ Bukhari, A., **Park, Y. S.**, Omayma, A. H., Tekian, A. (2019). Cultural influence on generational gaps: A case for medical education in the Gulf region. *Saudi Medical Journal*, 40(6), 601-610.
- ¹¹⁹ Hirshfield, L. E., Yudkowsky, R., & **Park, Y. S.** (2019). Pre-medical majors in the humanities and social sciences: Impact on communication skills and specialty choice. *Medical Education*, 53(4), 408-416.
- ¹¹⁸ Germann, C. A., Strout, T., **Park, Y. S.**, & Tekian A. (2019). Senior year curriculum in U.S. medical schools: A scoping review. *Teaching and Learning in Medicine*. Advance online publication (June 8, 2019). doi: 10.1080/10401334.2019.1618307
- ¹¹⁷ Tekian, A., **Park, Y. S.**, Zar, F. A., & Cook, D. A. (2019). Competencies and feedback on medical resident rotation assessments: Qualitative and quantitative analyses over time. *Academic Medicine*. Advance online publication (June 4, 2019). doi: 10.1097/ACM.0000000000002821
- ¹¹⁶ Kassardjian, C. D., **Park, Y. S.**, Braksick, S. A., Cutsforth-Gregory, J. K., Robertson, C. E., Young, N. P., & Leep, A. N. H. (2019). Validity evidence for quality improvement knowledge application tool revised (QIKAT-R) scores: consequences of rater number and type using neurology cases. *BMJ Quality & Safety*. Advance online publication (April 17, 2019). doi: 10.1136/bmjqs-2018-008689
- ¹¹⁵ Sullivan, M. E., **Park, Y. S.**, Liscum, K., Sachdeva, A. K., Blair, P. G., Gesbeck, M., & Bordage, G. (2019). The American College of Surgeons Entering Resident Readiness Assessment program: Development and national pilot testing results. *Annals of Surgery*. Advance online publication (March 8, 2019). doi: 10.1097/SLA.0000000000003241
- ¹¹⁴ Beaudoin, P.-L., Labbe, M., Fanous, A., Young, M., Rappaport J., **Park, Y. S.**, Maroukian, J., & Nguyen, L. H. P. (2019). Teaching communication skills to OTL-HNS residents: Multisource feedback and simulated scenarios. *Journal of Otolaryngology – Head & Neck Surgery*. Advance online publication (January 28, 2019). doi: 10.1186/s40463-019-0329-8
- ¹¹³ Lang, V. J., Berman, N. B., Bronander, K., Harrell, H., Hingle, S., Holthouser, A., Leizman, D., Packer, C., **Park, Y. S.**, Vu, T. R., Yudkowsky, R., Monteiro, S., &

- Bordage, G. (2019). Validity evidence for a brief online key features examination in the internal medicine clerkship. *Academic Medicine*, 94(2), 259-266.
- ¹¹² Gjeraa, K., Dieckmann, P., Spanager, L., Petersen, R. H., Østergaard, D., **Park, Y. S.**, & Konge, L. (2019). Exploring shared mental models of surgical teams in video-assisted thoracoscopic surgery lobectomy. *Annals of Thoracic Surgery*, 107(3), 954-961.
- ¹¹¹ Tekian, A., Borhani, M., Tilton, S., Abasolo, E., & **Park, Y. S.** (2019). What do quantitative ratings and qualitative comments tell us about general surgery residents' progress toward independent practice? Evidence from a 5-year longitudinal cohort. *American Journal of Surgery*, 217(2), 288-295.
- ¹¹⁰ Uchida, T., **Park, Y. S.**, Ovitsh, R. K., Hojsak, J., Gowda, D., Farnan, J., Boyle, M., Blood, A., Achike, F. I., & Silvestri, R. C. (2019). Approaches to teaching the physical exam to preclerkship medical students: Results of a national survey. *Academic Medicine*, 94(1), 129-134.
- ¹⁰⁹ Karam, V. Y., **Park, Y. S.**, Tekian, A., & Youssef, N. (2018). Evaluating the validity evidence of an OSCE: Results from a new medical school. *BMC Medical Education*, 18, 1-7.
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- ³ Abramson, D. M., Stehling-Ariza, T., **Park, Y. S.**, Walsh, L., & Culp, D. (2010). Measuring individual disaster recovery: A socio-ecological framework approach. *Disaster Medicine and Public Health Preparedness, 4*, S46-S54.
- ² Garrett, A., **Park, Y. S.**, & Redlener, I. (2009). Mitigating absenteeism in hospital workers during a pandemic. *Disaster Medicine and Public Health Preparedness, 3*(2), 141-147.
- ¹ **Park, Y. S.**, & Seo, J.-Y. (2006). A study on the efficiency in human resource management and in fiscal budgeting of Korea's local and regional education offices. *Korea Education Collection of Treatise, 1*, 79-104.

BOOK

- ¹ Yudkowsky, R., **Park, Y. S.**, & Downing, S. M. (2019). *Assessment in Health Professions Education. 2nd Edition*. New York, NY: Routledge.

BOOK CHAPTER

- ¹⁰ Schwartz, A., & **Park, Y. S.** (2019). Engaging with your statistician. In Yudkowsky, R., Park, Y. S., and Downing, S. M. (Eds.) *Assessment in Health Professions Education. 2nd Edition* (pp. 594-606). New York, NY: Routledge.
- ⁹ **Park, Y. S.** (2019). Item response theory. In Yudkowsky, R., Park, Y. S., and Downing, S. M. (Eds.) *Assessment in Health Professions Education. 2nd Edition* (pp. 578-591). New York, NY: Routledge.
- ⁸ Lineberry, M., Yudkowsky, R., **Park, Y. S.**, Cook, D. A., Ritter E. M., Knox, A. (2019). Assessment in mastery learning settings. In Yudkowsky, R., Park, Y. S., and Downing, S. M. (Eds.) *Assessment in Health Professions Education. 2nd Edition* (pp. 549-575). New York, NY: Routledge.

- ⁷ Downing, S. M., Juul, D., & **Park, Y. S.** (2019). Statistics of testing. In Yudkowsky, R., Park, Y. S., and Downing, S. M. (Eds.) *Assessment in Health Professions Education. 2nd Edition* (pp. 162-191). New York, NY: Routledge.
- ⁶ Kreiter, C. D., Zaidi, N. L. B., & **Park, Y. S.** (2019). Generalizability theory. In Yudkowsky, R., Park, Y. S., and Downing, S. M. (Eds.) *Assessment in Health Professions Education. 2nd Edition* (pp. 128-159). New York, NY: Routledge.
- ⁵ **Park, Y. S.** (2019). Reliability. In Yudkowsky, R., Park, Y. S., and Downing, S. M. (Eds.) *Assessment in Health Professions Education. 2nd Edition* (pp. 98-126). New York, NY: Routledge.
- ⁴ Yudkowsky, R., **Park, Y. S.**, & Downing, S. M. (2019). Introduction to Assessment in the Health Professions. In Yudkowsky, R., Park, Y. S., and Downing, S. M. (Eds.) *Assessment in Health Professions Education. 2nd Edition* (pp. 39-64). New York, NY: Routledge.
- ³ **Park, Y. S.**, & Lee, Y.-S. (2019). Explanatory cognitive diagnostic models. In von Davier, M., and Lee, Y.-S. (Eds.) *Handbook of Diagnostic Classification Models* (pp. 1-16). Switzerland: Springer.
- ² **Park, Y. S.**, Hodges, B., & Tekian, A. (2016). Evaluating the paradigm shift from time-based toward competency-based medical education: Implications for curriculum and assessment. In Wimmers, P. F., and Mentkowski, M. (Eds.) *Assessing competence in professional performance across disciplines and professions* (pp. 411-425). New York, NY: Springer.
- 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

- ⁸ Merdjanoff, A., Abramson, D., Piltch-Loeb, R., & **Park, Y. S.** (2019). Older adult disaster recovery following Hurricane Katrina. *Innovation in Aging*, 3(S1), 562. doi: 10.1093/geroni/igz038.2076
- ⁷ Kauffmann, G., McKilip, R. P., Schwartz, A., Farnan, J., **Park, Y. S.**, & Golden, D. W. (2017). Objective evaluation of a structured didactic radiation oncology clerkship curriculum: A report from the radiation oncology education collaborative study group. *International Journal of Radiation Oncology, Biology, Physics*, 99(2), E123-E124. doi: <https://doi.org/10.1016/j.ijrobp.2017.06.892>

- 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

- ² Mattson, C., & **Park, Y. S.** (in press). Towards thoughtful use of shelf exam scores in clerkship assessment systems. *Academic Medicine*.
- 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

- ³³ **Park, Y.S.** (2019, April). *Why graduate surgical education matters for best patient care outcomes*. Association of Program Directors in Surgery, Chicago, IL.
- 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.

INVITED WORKSHOPS

- ⁵ **Park, Y.S.** (2019, May). *Fundamentals of Assessment in CME Practice*, Invited conference workshop at the Annual Meeting of the Accreditation Council for Continuing Medical Education (jointly with Janet Riddle), Chicago, IL.
- ⁴ **Park, Y.S.** (2017, June). *Understanding generalizability theory – A primer*, Invited conference workshop presented at the Annual Meeting of the Association of Standardized Patient Educators (jointly with A. Blood), Alexandria, VA.
- ³ **Park, Y.S.** (2017, June). *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), Alexandria, VA.
- ² **Park, Y.S.** (2016, June). *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.
- ¹ **Park, Y.S.** (2016, June). *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.

PEER-REVIEWED CONFERENCE PRESENTATIONS

Paper presentations

- ⁵⁷ Xing, K., Lin, Q., & **Park, Y. S.** (2019, April). *Multilevel analysis incorporating multiple covariates for independent and higher-order cognitive diagnosis models*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, Toronto, Canada.
- 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

- ³⁶ Lin, Q., Xing, K., & **Park, Y. S.** (2019, August). *Measuring skill growth and evaluation change: Unconditional and conditional approaches to latent growth cognitive diagnostic models*. Poster presented at the Annual Meeting of the American Psychological Association, Chicago, IL.
- 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

- 06/2013 – 08/2020 **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; offered April, July, and November annually)
- 05/2012 – 08/2020 **Course Faculty, Master in Health Professions Education (MHPE)**, College of Medicine, University of Illinois at Chicago
 - *Assessment Methods* (Spring 2012; Summer 2013; Spring 2014; Spring 2015; Spring 2016; Spring 2017; Fall 2018; MHPE elective)
 - *Instruction and Assessment* (offered annually during Fall; MHPE 502 core course)
 - *Test Development* (Fall 2013; Fall 2014; Summer 2015; Fall 2017; MHPE elective)
 - *Generalizability Theory* (Spring 2014; MHPE independent seminar)
 - *Introduction to Quantitative Data Analysis* (Summer 2014; Summer 2015; Summer 2016; and Summer 2017; MHPE elective)
 - *Intermediate Quantitative Data Analysis* (Spring 2017; MHPE elective)
- 05/2012 – 08/2020 **Course Faculty, Doctor of Philosophy (Ph.D.) program in Health Professions Education**, College of Education, University of Illinois at Chicago
 - *Doctoral Research Project* (offered Fall, Spring, and Summer annually; CI 593)
- 07/2009 **Instructor, Master in Public Health (MPH)**, National Center for Disaster Preparedness, Mailman School of Public Health, Columbia University
 - *Statistical Treatment of Data* (offered Summer 2009; course for MPH students)

Course faculty: International programs

- 10/2018 – 08/2020 **Course Faculty, Master of Medical Education (MME), Institute of Medical Education, University of Bern, Bern, Switzerland**
 - *Assessment in Health Professions Education* (Course Module 14.05; offered October 2018)
- 10/2015 – 08/2020 **Course Faculty, Master of Medical Science in Medical Education (Ms.Med), King Abdulaziz University, Jeddah, Saudi Arabia**
 - *Instruction and Assessment in Health Professions Education* (October 2015; October 2016; MEED 800 / MEED 825 core course)

- 05/2015 – 08/2020 **Course Faculty, Master of Health Professions Education (MHPE), Taif University, Taif, Saudi Arabia**
- *Instruction and Assessment in Health Professions Education* (May 2015; MHPE 402502 core course)
 - *Advanced Assessment Methods* (December 2016; MHPE 402508-2 core course)
- 02/2012 – 12/2013 **Course Faculty, Master in Health Professions Education (MHPE), KLE University, Belgaum, India**
- *Assessment in Health Professions Education* (Spring 2012; Fall 2012; Core course)

Professional workshops

- 04/2019 *The American College of Surgeons Entering Resident Readiness Assessment (ACS-ERRA): Optimizing Assessment Data for Resident and Program Improvement*, Conference workshop at the Annual Meeting of the Association of Program Directors in Surgery (jointly with Kathy Liscum, Georges Bordage, Maura Sullivan, Patrice Blair, Melissa Gesbeck, and Ajit Sachdeva), Chicago, IL [April 24, 2019]
- 04/2019 *Protecting the Quality of our Assessments: Understanding Validity and Reliability in Surgery*, Conference workshop at the Annual Meeting of the Association of Surgical Education (jointly with Edmund Lee, Tiffany Anderson, Elizabeth Huffman, John Martin, Dana Lin, James Lau, Jeremy Lipman, and Ara Tekian), Chicago, IL [April 26, 2019]
- 03/2019 *How do I code thee? Let me count the ways*, Conference workshop at the Annual Meeting of the Association of Test Publishers (ATP) Innovations in Testing (jointly with Deborah Harris, Catherine Welch, Stephen Dunbar, and JP Kim), Orlando, FL [March 19, 2019]
- 05/2018 *The American College of Surgeons Entering Resident Readiness Assessment (ACS-ERRA): Graining Insights into the Decision-Making Skills of your Entering Residents*, Conference workshop at the Annual Meeting of the Association of Program Directors in Surgery (jointly with Kathy Liscum, Georges Bordage, Maura Sullivan, Patrice Blair, Melissa Gesbeck, and Ajit Sachdeva), Austin, TX [May 4, 2018]
- 11/2017 *Assessment Methods*, Workshop presented at the Faculty of Medicine at Taif University, Taif, Saud Arabia (jointly with Ara Tekian). [November 26-30, 2017]

- 12/2015 *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]
- 06/2015 *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]
- 06/2015 *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]
- 01/2015 *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]
- 06/2014 *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]
- 06/2014 *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]
- 01/2014 *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]
- 01/2014 *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]

- 10/2013 *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]
- 07/2013 *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]
- 04/2013 *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

- 04/2020 – present **Assistant Editor**, *Academic Medicine*
- 04/2020 – present **Associate Editor**, *Perspectives on Medical Education*
- 11/2018 – 11/2021 **Chair**, Research in Medical Education (RIME), Association of American Medical Colleges (elected)
- 04/2018 – 04/2021 **Vice-President and Council Member**, American Educational Research Association (AERA), Division I (elected)
- 04/2017 Faculty, American Educational Research Association (AERA) Capstone Conference
- 04/2016 – 04/2017 **Program Chair**, American Educational Research Association (AERA), Division I (April 2017 AERA Annual Meeting)
- 11/2016 – 11/2018 **Committee Member**, Research in Medical Education (RIME; elected for 3-year service), Association of American Medical Colleges
- 09/2016 – present **External Reviewer**, *Research in Clinical Assessment Grant*, Medical Council of Canada
- 06/2016 – present **Editorial Board Member**, *Frontiers in Applied Mathematics and Statistics*
- 06/2016 – present **Editorial Board Member**, *Frontiers in Psychology*
- 06/2016 – present Reviewer, *Methodology, Measurement, and Statistics (MMS) Program*, National Science Foundation (NSF)
- 04/2015 – 04/2017 Committee Member, New Investigator Award Committee, American Educational Research Association (AERA), Division I
- 02/2015 – present Reviewer, *Group on Educational Affairs (GEA) National Grant Program*, Association of American Medical Colleges
- 02/2015 – present **Editorial Board Member**, *Advances in Simulation*
- 05/2014 – present **Editorial Board Member**, *Teaching and Learning in Medicine*
- 06/2013 – present Member, Grants and Research Committee, Association of Standardized Patient Educators (ASPE)
- 04/2013 – present **Associate Editor**, *KAERA Research Brief: Educational Measurement*
- 05/2011 – present Reviewer for 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

- 08/2017 – 05/2020 Member, University Faculty Senate (re-elected, 2nd term)
08/2014 – 05/2017 Member, University Faculty Senate (elected)

Service to the College of Medicine

- 08/2013 – 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
02/2012 – 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

- 08/2019 – present **Chair**, Graduate Studies Committee
05/2019 **Co-Chair**, Open Rank Tenure-Track Faculty Search Committee
05/2019 Member, Director of Administrative Operation Search Committee
08/2019 – present **Chair**, Program Evaluation Committee
08/2016 – present Member, Advisory Committee
08/2015 – 08/2016 **Chair**, Resources and Infrastructure Committee (Strategic Planning)
09/2014 – 07/2015 **Program Chair**, 2015 MHPE Conference Planning Committee
07/2013 – 07/2016 Member, MHPE Thesis Award Committee
01/2013 – present Member, Admissions Committee for MHPE and PhD applicants
01/2013 – 08/2014 Member, Strategic Planning: Research and Scholarship Task Force
05/2013 Member, Social Science Faculty Search Committee
02/2012 – present Member, Graduate Studies Committee
02/2012 – 01/2013 Moderator, DME Quantitative Group
05/2012 Member, Simulation Faculty Search Committee