

# Curriculum Vitae Yoon Soo Park, PhD

Associate Professor, Harvard Medical School

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## EDUCATION

### **Ph.D. Measurement, Evaluation, and Statistics**

Columbia University, New York, NY

### **M.S. Applied Statistics**

Columbia University, New York, NY

### **B.A. Mathematics and Japanese** (High Honors), *magna cum laude*

Colgate University, Hamilton, NY

## PROFESSIONAL EXPERIENCE

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| 2020 – present | <b>Associate Professor</b> , Harvard Medical School, Harvard University, Boston, MA  |
| 2020 – present | <b>Director of Health Professions Education Research</b> , Massachusetts General Hospital, Boston, MA  |
| 2020 – present | <b>Adjunct Professor</b> , Massachusetts General Hospital (MGH) Institute of Health Professions, Boston, MA  |
| 2019 – 2020    | <b>Acting Director of Graduate Studies</b> , Department of Medical Education, University of Illinois – College of Medicine at Chicago, Chicago, IL |
| 2018 – 2020    | <b>Associate Head</b> , Department of Medical Education, University of Illinois – College of Medicine at Chicago, Chicago, IL                      |
| 2018 – 2020    | <b>Director of Research, Office of Educational Affairs</b> , 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
- 2015 – 2020      **Affiliated Faculty**, Department of Curriculum and Instruction, College of Education, University of Illinois at Chicago, Chicago, IL
- 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

## PROFESSIONAL SERVICE

- 2021 – present      **Associate Editor**, *Advances in Health Sciences Education*
- 2020 – present      **Assistant Editor**, *Academic Medicine*
- 2020 – present      **Associate Editor**, *Perspectives on Medical Education*
- 2020 – present      **Editorial Board Member**, *Springer Book Series in Innovation and Change in Professional Education*
- 2018 – 2021      **Chair**, Research in Medical Education (RIME, elected; Incoming Chair, 2018-2019; Chair, 2019-2020; Past-Chair, 2020-2021), Association of American Medical Colleges (AAMC)
- 2018 – 2021      **Vice President and Council Member**, American Educational Research Association (AERA), Division I (elected)
- 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; elected 3-year service), Association of American Medical Colleges (AAMC)
- 2016 – present      **Editorial Board Member**, *Frontiers in Applied Mathematics and Statistics*
- 2016 – present      **Editorial Board Member**, *Frontiers in Psychology*

- 2015 – present      **Editorial Board Member**, *Advances in Simulation*
- 2014 – present      **Editorial Board Member**, *Teaching and Learning in Medicine*

## RESEARCH INTERESTS

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

## HONORS

- 2019                    **Academy of Master Surgeon Educators**, American College of Surgeons (ACS). Recognition for national and international leaders who advance the science and practice of surgical education.
- 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

- <sup>28</sup> 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

<sup>27</sup> **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

<sup>26</sup> 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

<sup>25</sup> **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

<sup>24</sup> **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

<sup>23</sup> 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)

<sup>22</sup> 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

- <sup>21</sup> 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
- <sup>20</sup> 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
- <sup>19</sup> 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
- <sup>18</sup> 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
- <sup>17</sup> 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
- <sup>16</sup> 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
- <sup>15</sup> 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

- <sup>14</sup> 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
- <sup>13</sup> 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
- <sup>12</sup> 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
- <sup>11</sup> 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
- <sup>10</sup> **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
- <sup>9</sup> 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
- <sup>8</sup> **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

- <sup>7</sup> **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
- <sup>6</sup> **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
- <sup>5</sup> 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
- <sup>4</sup> **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
- <sup>3</sup> **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
- <sup>2</sup> 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
- <sup>1</sup> 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

## PEER-REVIEWED JOURNAL ARTICLES

- <sup>185</sup> Bajwa, N. M., Nendaz, M., Posfay-Barbe, K. M., Yudkowsky, R., & **Park, Y. S.** (in press). A meaningful and actionable professionalism assessment: Validity evidence for the Professionalism Mini-Evaluation Exercise (P-MEX) across eight years. *Academic Medicine*.
- <sup>184</sup> Santen, S. A., Ryan, M., Helou, M. A., Richards, A., Perera, R. A., Haley, K., Bradner, M., Rigby, F. B., & **Park, Y. S.** (in press). Building Reliable and Generalizable Clerkship Competency Assessments: Impact of “hawk-dove” correction. *Medical Teacher*.
- <sup>183</sup> Ortega, P., Moxon, N. R., Chokshi, A. K., Pérez-Cordón, C., & **Park, Y. S.** (in press). Validity evidence supporting communication and interpersonal skills assessment for Spanish standardized patient encounters. *Academic Medicine*.
- <sup>182</sup> Ritter, E. M., **Park, Y. S.**, Durning, S., & Tekian, A. (in press). The Impact of Simulation Based Training on the Fundamentals of Endoscopic Surgery Performance Examination. *Annals of Surgery*.
- <sup>181</sup> Yeh, D. D., Reynolds, J., Pust, G. D., Sleeman, D., Meizoso, J. P., Menzel, C., Horkan, D., Lineberry, M., Yudkowsky, R., & **Park, Y. S.** (in press). Publication inaccuracies listed in general surgery residency training program applications. *Journal of the American College of Surgeons*.
- <sup>180</sup> Lipman, J., **Park, Y. S.**, & Tekian A. (in press). Content of an educational handover letter from medical school to surgery residencies: A mixed method analysis. *Academic Medicine*.
- <sup>179</sup> Anderson, T. N., Lau, J.N., Shi, R., Sapp, R. W., Aalami, L. R., Lee, E. W., Tekian, A., & **Park, Y. S.** (in press). The Utility of Peers and Trained Raters in Technical Skill-based Assessments: A Generalizability Theory Study. *Journal of Surgical Education*.
- <sup>178</sup> Zhang, M., VanLandingham, M., **Park, Y. S.**, Anglewicz, & Abramson, D. (in press). Differences in post-disaster mental health among Vietnamese and African Americans living in adjacent urban communities flooded by Katrina. *PLOS ONE*.
- <sup>177</sup> Dekhtyar, M., **Park, Y. S.**, Chudgar, S., Fedoriw, K., Johnson, K., Knoche, C., Martinez, L., Mingioi, N., Pincavage, A., Salas, R., Sanfilippo, F., Sozio, S., Weigle, N., Wood, S., Zavodnick, J., & Stern, S. (2021). Use of a structured approach and virtual simulation practice to improve diagnostic reasoning. *Diagnosis*. Advance online publication (July 12, 2021). doi: 10.1515/dx-2020-0160



- <sup>176</sup> Nomura, O., Irie, J., **Park, Y. S.**, Nonogi, H., & Hanada, H. (2021). Evaluating effectiveness of YouTube videos for teaching medical students CPR: solution to optimizing clinician educator workload during the COVID-19 pandemic. *International Journal of Environmental Research and Public Health*. Advance online publication (July 2, 2021). doi: 10.3390/ijerph18137113
- <sup>175</sup> Shappell, E., Ahn, J., **Park, Y. S.**, McKillip, R., Ernst, M., Pirotte, M., & Tekian, A. (2021). Affective, Cognitive, and Behavioral Outcomes from a Resident Personal Finance Curriculum Pilot. *AEM Education and Training*. Advance online publication (July 1, 2021). doi: 10.1002/aet2.10619
- <sup>174</sup> Ryan, M. S., Khan, A. R., **Park, Y. S.**, Chastain, C., Phillipi, C., Santen, S. A., Barron, B. A., Obeso, V., & Yingling, S. L. (2021). Workplace-based entrustment scales for the Core EPAs: A multisite comparison of validity evidence for two proposed instruments using structured vignettes and trained raters. *Academic Medicine*. Advance online publication (June 29, 2021). doi: 10.1097/ACM.0000000000004222
- <sup>173</sup> Gomes, M. M., Driman, D., **Park, Y. S.**, Wood, T., Yudkowsky, T., & Dudek, N. (2021). Teaching and Assessing Intraoperative Consultations in Competency-Based Medical Education: Development of a Workplace-Based Assessment Instrument. *Virchows Archiv*. Advance online publication (May 8, 2021). doi: 10.1007/s00428-021-03113-6
- <sup>172</sup> Stefanidis, D., Aggarwal, R., Rush, R. M., Lee, G., Blair, P. G., Hananel, D., Johnson, K. A., Ooi, K.-B., **Park, Y. S.**, Sormalis, C., Sweet, R. M., Wisbach, G. G., & Sachdeva, A. K. (in press). The Advanced Modular Manikin enhances surgical team experiences during a trauma simulation: Results of a single-blinded randomized trial. *Journal of the American College of Surgeons*. Advance online publication (May 7, 2021). doi: 10.1016/j.jamcollsurg.2021.04.029
- <sup>171</sup> Andersen, S. A., Nayahangan, L. J., **Park, Y. S.**, & Konge, L. (2021). The use of generalizability theory for exploring reliability and sources of variance of assessments of technical skills: A systematic review and meta-analysis. *Academic Medicine*. Advance online publication (May 4, 2021). doi: 10.1097/ACM.0000000000004150
- <sup>170</sup> Smith, B. K., Luman, A., Yakazami, K., Tekian, A., Hamstra, S., Holmboe, E., Mitchell, E. L., & **Park, Y. S.** (2021). Using learning analytics to examine achievement of graduation targets for systems-based practice and practice-based learning and improvement: A national cohort of vascular surgery fellows. *Annals of Vascular Surgery*. Advance online publication (April 24, 2021). doi: 10.1016/j.avsg.2021.03.046
- <sup>169</sup> Ortega, P., Shin, T., Francone, N., Santos, M. P., Girotti, J. A., Varjavand, N., & **Park, Y. S.** (2021). Student and faculty diversity is insufficient to ensure high-quality

medical Spanish education in US medical schools. *Journal of Immigrant and Minority Health*. Advance online publication (April 9, 2021). doi: 10.1007/s10903-021-01198-4

- <sup>168</sup> Almalki, A., **Park, Y. S.**, & Tekian, A. (2021). Needs assessment for interprofessional education: Implications for integration and readiness for practice. *Healthcare*. Advance online publication (April 2, 2021). doi: 10.3390/healthcare9040411
- <sup>167</sup> Ortega, P., Francone, N., Santos, M. P., Girotti, J. A., Shin, T. M., Varjavand, N., & **Park, Y. S.** (2021). Medical Spanish in U.S. medical schools: A national survey to examine existing programs. *Journal of General Internal Medicine*. Advance online publication (March 29, 2021). doi: 10.1007/s11606-021-06735-3
- <sup>166</sup> Jogerst, K.M., **Park, Y. S.**, & Petrusa, E. (2021). Are your assessments reliable? A statistical review for the surgical educator. *Resources in Surgical Education*. Advance online publication (March 23, 2021). Article available at: <https://www.facs.org/education/division-of-education/publications/rise/articles/assessment-scores>
- <sup>165</sup> Bursua, A., Mudreac, A., Koppen, L., Larson, C., **Park, Y. S.**, & Sreedhar, R. (2021). Improvement in opioid prescribing patterns following standardization of prescription order default settings. *The Joint Commission Journal on Quality and Patient Safety*. Advance online publication (March 13, 2021). doi: 10.1016/j.jcjq.2021.03.005
- <sup>164</sup> Jacobsen, M. F., Konge, L., Cour, M., Sorensen R. B., **Park, Y. S.**, Thomsen, A. S. (2021). The learning curve of robot-assisted vitreoretinal surgery – a randomized trial in a simulated setting. *Acta Ophthalmologica*. Advance online publication (March 1, 2021). doi: 10.1111/aos.14822
- <sup>163</sup> Jacobsen, M. E., Gustafsson A., Jørgensen, P. G., **Park, Y. S.**, Konge, L. (2021). Practicing procedural skills in knee arthroscopy is more effective than basic psychomotor training: A randomized study. *The Orthopaedic Journal of Sports Medicine*. Advance online publication (February 23, 2021). doi: 10.1177/2325967120985129
- <sup>162</sup> Nomura, O., Onishi, H., **Park, Y. S.**, Michihata, N., Kobayashi, T., Kaneko, K., Yoshikawa T., & Ishiguro, A. (2021). Predictors of performance on the pediatric board certification examination. *BMC Medical Education*. Advance online publication (February 22, 2021). doi: 10.1186/s12909-021-02515-z
- <sup>161</sup> Horita, S., **Park, Y. S.**, Son, D., & Eto, M. (2021). Computer-Based Test (CBT) and OSCE Scores Predict Residency Matching and National Board assessment results in Japan. *BMC Medical Education*. Advance online publication (February 2, 2021). doi: 10.1186/s12909-021-02520-2

- <sup>160</sup> Jogerst, K.M., Eurboonyanun, C., **Park, Y. S.**, Cassidy, D., McKinley, S. M., Hamdi, I., Phitayakorn, R., Petrusa, E., Gee, D. W. (2021). Implementation of the ACS/APDS resident skills curriculum reveals a need for rater training: An analysis using generalizability theory. *American Journal of Surgery*. Advance online publication (January 18, 2021). doi: 10.1016/j.amjsurg.2021.01.018
- <sup>159</sup> Ryan, M. S., Richards, A., Perera, R., **Park, Y. S.**, Stringer, J. K., Waterhouse, E., Dubinsky, B., Khamishon, & Santen, S. (2021). 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*. Advance online publication (January 12, 2021). doi: 10.1097/ACM.0000000000003921
- <sup>158</sup> Ortega, P., López-Hinojosa, I., **Park, Y. S.**, Girotti, J. A. (2021). Medical Spanish Musculoskeletal and Dermatologic Educational Module. *MedEdPORTAL*, 17, 11071. doi: 10.15766/mep\_2374-8265.11071
- <sup>157</sup> **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
- <sup>156</sup> Tanaka, P., **Park, Y. S.**, Roby, J., Ahn, K., Kakazu, C., Udani, A., & Macario, A. (2020). Milestone learning trajectories of residents at five anesthesiology residency programs. *Teaching and Learning in Medicine*. Advance online publication (December 17, 2020). doi: 10.1080/10401334.2020.1842210
- <sup>155</sup> Tolsgaard M. G., Boscardin C. K., **Park, Y. S.**, Cuddy, M. M., & Sebok-Syer, S. S. (2020). The role of data science and machine learning in Health Professions Education: Practical applications, theoretical contributions, and epistemic beliefs. *Advances in Health Sciences Education*. Advance online publication (November 3, 2020). doi: 10.1007/s10459-020-10009-8
- <sup>154</sup> Ryan, M. S., Lee, B., Richards, A., Perera, R., Haley, K., Rigby, F. B., **Park, Y. S.**, & Santen, S. (2020). Evaluating the reliability and validity evidence of the RIME (Reporter-Interpreter-Manager-Educator) model for summative assessments across clerkships. *Academic Medicine*. Advance online publication (October 27, 2020). doi: 10.1097/ACM.0000000000003811
- <sup>153</sup> Lin, Q., Xing, K., & **Park, Y. S.** (2020). Measuring skill growth and evaluating change: Unconditional and conditional approaches to latent growth cognitive diagnostic models. *Frontiers in Psychology*. Advance online publication (September 11, 2020). doi: 10.3389/fpsyg.2020.02205
- <sup>152</sup> **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.00000000000003636

- <sup>151</sup> 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.00000000000003640
- <sup>150</sup> 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.
- <sup>149</sup> Vinagre, R., Tanaka, P., **Park, Y. S.**, & Macario, A. (2020). Red flags, geography, exam scores, and other factors used by program directors in determining which applicants are offered an interview for anesthesiology residency. *Cureus*, 12(11), e11550. doi:10.7759/cureus.11550
- <sup>148</sup> 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
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## BOOK

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## PEER-REVIEWED ABSTRACTS

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## PEER-REVIEWED LETTER TO THE EDITOR

- <sup>2</sup> Mattson, C., & **Park, Y. S.** (2020). Towards thoughtful use of shelf exam scores in clerkship assessment systems. *Academic Medicine*, 95(10), 1466-1467.
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## TECHNICAL REPORTS

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- <sup>2</sup> **Park, Y. S.** (2007). *The economics of legislating homeschooling in South Korea*. Seoul, South Korea: Republic of Korea National Assembly.
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## INVITED PRESENTATIONS

- <sup>34</sup> **Park, Y.S.** (2021, February). *Transforming learner assessments: Innovations in longitudinal and developmental analytics systems*. National Academy of Medicine of Korea. Seoul, South Korea (Virtual).
- <sup>33</sup> **Park, Y.S.** (2019, April). *Why graduate surgical education matters for best patient care outcomes*. Association of Program Directors in Surgery, Chicago, IL.
- <sup>32</sup> **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.
- <sup>31</sup> **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.
- <sup>30</sup> **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.
- <sup>29</sup> **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.
- <sup>28</sup> **Park, Y.S.** (2018, February). *Post-clinical clerkship examinations*. Japan Society for Medical Education, Tokyo, Japan.
- <sup>27</sup> **Park, Y.S.** (2018, January). *Aligning medical education with outcomes-based research*. Faculty of Medicine Professors Meeting, University of Tokyo, Tokyo, Japan.

- <sup>26</sup> **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.
- <sup>25</sup> 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.
- <sup>24</sup> **Park, Y.S.** (2017, December). *Translational science and alignment of medical education with outcomes*. Department of Otolaryngology, University of Tokyo, Tokyo, Japan.
- <sup>23</sup> **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.
- <sup>22</sup> **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.
- <sup>21</sup> **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.
- <sup>20</sup> **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.
- <sup>19</sup> **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.
- <sup>18</sup> **Park, Y.S.** (2016, February). *Hospital workers' willingness to work during a pandemic: Trends and implications*. The 6<sup>th</sup> Annual Hospital Disaster Planning, Preparations and Response Symposium: An All-Hazards Approach, Miami, FL.
- <sup>17</sup> **Park, Y.S.** (2015, December). *Validity research in medical education as translational science*. Copenhagen Academy for Medical Education and Simulation, University of Copenhagen, Denmark.
- <sup>16</sup> **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.

- <sup>15</sup> **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.
- <sup>14</sup> **Park, Y.S.** (2015, May). *Correlations, reliability, and confidence intervals*. The Technical Advisory Committee, Chicago Public Schools, Chicago, IL.
- <sup>13</sup> **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.
- <sup>12</sup> **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.
- <sup>11</sup> **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.
- <sup>10</sup> **Park, Y.S.** (2014, October). *Evaluating the reliability of teacher observations: REACH students system*. The Chicago Public Schools, Chicago, IL.
- <sup>9</sup> **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.
- <sup>8</sup> **Park, Y.S.** (2013, June). *Hierarchical rater models for evaluation differences in modes of observation*. Pearson VUE, Performance Assessment Research Group, Chicago, IL.
- <sup>7</sup> **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.
- <sup>6</sup> **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.
- <sup>5</sup> **Park, Y.S.** (2011, May). *Examining classification accuracy under rater drift*. The Department of Human Development Colloquium, Teachers College, Columbia University.



- <sup>4</sup> **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.
- <sup>3</sup> **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.
- <sup>2</sup> **Park, Y. S.** (2010, March) *Item response theory parameter estimation: BILOG, R, Stata, and WinBUGS*. Teachers College, Columbia University.
- <sup>1</sup> **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

- <sup>5</sup> **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.
- <sup>4</sup> **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.
- <sup>3</sup> **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.
- <sup>2</sup> **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.
- <sup>1</sup> **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

- <sup>57</sup> 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.
- <sup>56</sup> 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.
- <sup>55</sup> **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.
- <sup>54</sup> **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.
- <sup>53</sup> **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.
- <sup>52</sup> 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.
- <sup>51</sup> 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.
- <sup>50</sup> 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.
- <sup>49</sup> **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.

- <sup>48</sup> 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.
- <sup>47</sup> 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.
- <sup>46</sup> **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.
- <sup>45</sup> **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.
- <sup>44</sup> **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.
- <sup>43</sup> 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.
- <sup>42</sup> **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.
- <sup>41</sup> **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.

- <sup>40</sup> **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.
- <sup>39</sup> **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.
- <sup>38</sup> **Park, Y. S.**, Kamin, C., & Yudkowsky, R. (2014, May). *Implications for standard setting in communication and interpersonal skills*. Paper presented at the 30<sup>th</sup> Annual Meeting of The Korean Society of Medical Education, Seoul, South Korea.
- <sup>37</sup> **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.
- <sup>36</sup> 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.
- <sup>35</sup> 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.
- <sup>34</sup> 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.
- <sup>33</sup> **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.
- <sup>32</sup> 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.

- <sup>31</sup> **Park, Y. S.** (2013, June). *Measuring resident progress in the ACGME Next Accreditation System: Are observation-based assessments effective?* Paper presented at the 29<sup>th</sup> Annual Meeting of The Korean Society of Medical Education, Buyeo, South Korea.
- <sup>30</sup> **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.
- <sup>29</sup> 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.
- <sup>28</sup> 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.
- <sup>27</sup> **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.
- <sup>26</sup> **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.
- <sup>25</sup> 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.
- <sup>24</sup> **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.
- <sup>23</sup> **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.
- <sup>22</sup> **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.

- <sup>21</sup> 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.
- <sup>20</sup> **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.
- <sup>19</sup> **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.
- <sup>18</sup> **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.
- <sup>17</sup> **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.
- <sup>16</sup> 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.
- <sup>15</sup> 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.
- <sup>14</sup> **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.
- <sup>13</sup> **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.
- <sup>12</sup> 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.

- <sup>11</sup> **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.
- <sup>10</sup> **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.
- <sup>9</sup> 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.
- <sup>8</sup> 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.
- <sup>7</sup> **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.
- <sup>6</sup> 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.
- <sup>5</sup> **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.
- <sup>4</sup> **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.
- <sup>3</sup> 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.

<sup>2</sup> 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.

<sup>1</sup> 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

<sup>36</sup> 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.

<sup>35</sup> 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]

<sup>34</sup> 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.

<sup>33</sup> Luna-Bazaldúa, 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.

<sup>32</sup> 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.

<sup>31</sup> **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.



- <sup>30</sup> 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.
- <sup>29</sup> 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.
- <sup>28</sup> 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.
- <sup>27</sup> 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.
- <sup>26</sup> 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.
- <sup>25</sup> **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.
- <sup>24</sup> **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.
- <sup>23</sup> **Park, Y. S.**, & Lee, Y.-S. (2014, January). *Studying the effect of covariates on mathematics skill mastery: Analysis of TIMSS 4<sup>th</sup> grade mathematics using the Multiple-Groups RDINA model*. Poster presented at the Annual Meeting of the Hawaii International Conference in Education, Honolulu, HI.
- <sup>22</sup> 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.

- <sup>21</sup> **Park, Y. S.**, Kamin, C., & Yudkowsky, R. (2013, August). *Setting passing standards for communication and interpersonal skills*. Poster presented at the 11<sup>th</sup> Annual Clinical Education and Assessment Chicago Style Conference, Chicago, IL.
- <sup>20</sup> 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.
- <sup>19</sup> 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 29<sup>th</sup> Annual Meeting of The Korean Society of Medical Education, Buyeo, South Korea.
- <sup>18</sup> 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.
- <sup>17</sup> 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.
- <sup>16</sup> **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.
- <sup>15</sup> Lee, Y.-S., **Park, Y. S.**, & Song, Y. (2013, April). *Examining the mastery of science skills using the 4<sup>th</sup> grade science TIMSS*. Poster presented at the Annual Meeting of the National Association for Research in Science Teaching, Rio Grande, Puerto Rico.
- <sup>14</sup> 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.
- <sup>13</sup> 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.
- <sup>12</sup> **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.

- <sup>11</sup> **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.
- <sup>10</sup> **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.
- <sup>9</sup> **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.
- <sup>8</sup> 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.
- <sup>7</sup> 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.
- <sup>6</sup> **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.
- <sup>5</sup> **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.
- <sup>4</sup> 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.
- <sup>3</sup> **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.

<sup>2</sup> **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.

<sup>1</sup> 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.

## 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]