Seol, Hyun Soo
설 현 수

Professor, Department of Education, Chung-Ang University

RESEARCH AREAS

Psychological Measurement and
Applied Statistics

TEACHING AREAS

R programming and
Data Analysis

EDUCATION

(1998) Ph.D., Quantitative Research, Evaluation and Measurement
School of Educational Policy and Leadership
The Ohio State University
Advisor: Ayres D'Costa, Ph.D.
Dissertation: Sensitivity of Five Rasch-Model-Based-Fit Indices to
Selected Person and Item Aberrances: A Simulation Study
(1993) M.Ed., Educational Psychology
College of Education, Chung-Ang University, Seoul, Korea
(1990) B.A., Education
Chung-Ang University, Seoul, Korea

EXPERIENCE

(2011-2012) Visiting Professor, University of California, Santa Barbara, USA
(2002-present) Professor, Department of Education, Chung-Ang University, Seoul, Korea
(1999-2002) Research fellow, Korea Institute of Curriculum and Evaluation, Seoul, Korea
(1998-1999) Post-Doctor, Korea Educational and Development Institute, Seoul, Korea
(2010) LG Yonam Foundation Visiting Scholar Fellowship

Rater-Mediated Performance Assessment using Many-Facet Rasch Measurement
Psychological Assessment, Test Development and Validation using Rasch Measurement Theory

PUBLISHED JOURNALS

Selected Publications

▫ Seol, H. (2016). Using the Bootstrap Method to Evaluate the Critical Range of Misfit for Polytomous Rasch Fit Statistics. Psychological Reports, 118(3), 937-956.

▫ Seol, H. (2007). A Psychometric Investigation of the Marlowe-Crowne Social Desirability Scale using Rasch Measurement. Measurement and Evaluation in Counseling and Development, 40, 155-168

▫ Seol, H. (1999). Detecting Differential Item Functioning with five Standardized Item-Fit Indices in the Rasch Model. Journal of Outcome Measurement, 3, 233-247.

▫ Nam, S., Yang, E., Lee, S., Lee, S., & Seol, H. (2011). A Psychometric evaluation of the career decision self-efficacy scale with korean students: A Rasch model approach. Journal of Career Development, 38, 147-166

Selected Presentations

▫ Seol, H. (April, 2006). Using Rasch measurement model to validate the Korean version of the Marlowe-Crowne social desirability scale. Presented at the annual conference of the American Educational Research Association, San Francisco, USA.

▫ Hong,S., Wong, C., Seol, H. (January, 2004). Psychometric properties of the Korean version of the Beck depression inventory: Rasch rating scaling modeling. Presented at the 2nd International Conference on Measurement in Health, Education, Psychology and Marketing: Developments with Rasch and Unfolding Models, Perth, Australia.

▫ Hong, S. & Seol, H. (August, 2001). When does internal test bias cause external predictive bias? Presented at the annual conference of the American Psychological Association, San Francisco, USA.

▫ Hong, S., Lee, M., & Seol, H. (April, 2001). Hierarchical confirmatory factor analysis of the revised Personal Style Inventory. Presented at the annual conference of the American Educational Research Association, Seattle, Washington, USA.

▫ Seol, H., D'Costa. A., Knapp. T., & Loadman. W. (1998, October). Sensitivity of five Rasch-Model-Based Fit Indices to Person and Item Aberrances. A paper presented at the annual meeting of Mid-Western Educational Research Association. Chicago, USA.

Computer Program

▫ Walker, M.E., & Seol, H. (1998). RASCHFIT: A Microsoft Fortran Program for PersonFit Statistics in the Rasch Model. Unpublished Computer Program. The Ohio State University.

▫ Seol, H. (1998). IFIT: A Microsoft Fortran Program for Item-Fit Statistics in the Rasch Model. Unpublished Computer Program. The Ohio State University.

▫ Seol, H. (2016). Bootstrap Item and Person Fit Statistics using R program. Unpublished Computer Program.

Workshop Training

▫ Rasch Measurement Workshop. April 6-7, 2006, AERA, San Francisco, USA.

▫ Advanced five day course in Rasch measurement and Unfolding models (includes use of the programs RUMM2020 and RATEFOLD). Jan 12-16, 2004, Perth, Western Australia.