
BIOGRAPHICAL SKETCH

NAME	POSITION TITLE
Booil Jo	Assistant Professor

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)*

INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Seoul National University, Seoul, Korea	B.A.	1989	Human Development
Seoul National University, Seoul, Korea	M.A	1991	Educational Statistics
University of California, Los Angeles, CA	Ph.D.	1998	Applied Statistics

A. Positions and Honors**Positions and Employment**

1989 – 1992	Graduate Researcher, Educational Statistics, Graduate School of Education, Seoul National University, Seoul, Korea.
1992 – 1998	Graduate Researcher, Social Research Methodology, Graduate School of Education & Information Studies, University of California, Los Angeles.
1994 – 1998	Teaching Assistant, Social Research Methodology, Graduate School of Education & Information Studies, University of California, Los Angeles.
1998 – 2003	Research Associate (postdoctoral fellow), Social Research Methodology, Graduate School of Education & Information Studies, University of California, Los Angeles.
2003 – present	Assistant Professor, Department of Psychiatry and Behavioral Sciences, Stanford University.

Honors and Awards

1992 – 1998	Department Fellowship, Graduate School of Education & Information Studies, UCLA
1997	Dean's Scholar Fellowship, Graduate School of Education & Information Studies, UCLA
2003 – 2007	R01 Grant Award by NIMH (Accounting for Heterogeneity Among Unobserved Subpopulations)

Professional Membership

1994 - present	Member, American Educational Research Association.
1997 - present	Member, American Statistical Association.
1998 - present	Member, Society for Prevention Research.
1999 - present	Member, Prevention Science Methodology Group.

Other Experience

1999	Invited Lecture "Complier Average Casual Effect Estimation in Intervention Studies: Modeling Techniques and Practical Implications", Institute for Social Research, University of Michigan.
2000	Invited Lecture "Mixture Modeling", National Conference of Techniques for Handling Bias. Houston, Texas.
2000	Journal Review (Psychological Methods).
2001	Book Review (Sage).
2001	Symposium Chair. "Analyzing education and behavioral data accounting for unobserved subpopulations: A general growth mixture modeling approach". Annual Conference of the American Educational Research Association.
2002	Invited Technical Exhibition " Analyzing data from randomized trials using Mplus". Joint Statistical Meetings of American Statistical Association.
2002	Journal Review (Biometrics)
2003	Journal Review (Prevention Science, Biometrics).

B. Selected Publications

Jo, B. (1992). A study of item bias in Korean SAT, using the three-parameter logistic model. *Journal of Educational Evaluation*, 5, 61-91. Seoul, Korea.

Muthén, B. O., Huang, L. C., Jo, B., Khoo, S. T., Goff, G. N., Novak, J. & Shih, J. (1995). Opportunity-to-learn effects on achievement: Analytical aspects. *Educational Evaluation and Policy Analysis*, 17, 371-403

Jo, B. & Muthén, B. O. (2001). Modeling of Intervention Effects with Noncompliance: A Latent Variable Modeling Approach for Randomized Trials. In G. A. Marcoulides and R. E. Schumacker (Eds.), *Advanced Structural Equation Modeling: New Developments and Techniques* (pp 57-87). Lawrence Erlbaum Associates

Jo, B. (2002). Model Misspecification Sensitivity Analysis in Estimating Causal Effects of Interventions with Noncompliance. *Statistics in Medicine*, 21, 3161-3181.

Jo, B. (2002). Statistical Power in Randomized Intervention Studies with Noncompliance. *Psychological Methods*, 7, 178-193.

Jo, B. (2002). Estimation of Intervention Effects with Noncompliance: Alternative Model Specifications (With comment and rejoinder). *Journal of Educational and Behavioral Statistics*, 27, pp. 385-409 (the article), pp. 411-415 (discussion by Mealli & Rubin), pp. 417-420 (rejoinder by Jo).

Jo, B. & Muthén, B. O. (2002). Longitudinal Studies with Intervention and Noncompliance: Estimation of Causal Effects in Growth Mixture Modeling. In N. Duan and S. Reise (Eds.), *Multilevel Modeling: Methodological Advances, Issues, and Applications* (pp 112-139), *Multivariate Applications Book Series*, Lawrence Erlbaum Associates

Muthén, B. O., Brown, C. H., Masyn, K., Jo, B., Khoo, S. T., Yang, C. C., Wang, C. P., Kellam, S. G., Carlin, J. B., & Liao, J. (2002). General growth mixture modeling for randomized preventive interventions. *Biostatistics*, 3, 459-475.

Muthén, B. O., Jo, B., & Brown, C. H (2003). Discussion on "A principal stratification to broken randomized experiments" by Barnard, Frangakis, Hill, and Rubin. *Journal of American Statistical Association*.

C. Research Support

Ongoing Research Support

R01 MH66319-01A1 (Booil Jo, P.I, 50% of effort) 10/01/03-09/30/07
NIMH

The aim of the proposed project is to develop, demonstrate, and disseminate innovative statistical approaches to account for heterogeneity among unobserved (underlying) subpopulations in mental health research.

Completed Research Support

P50 MH38725 (Philip Leaf, P.I) 07/01/98-06/30/99
NIMH to Epidemiologic Prevention Center for Early Risk Behaviors, Johns Hopkins School of Hygiene and Public Health.
Randomized trial designed to improve academic achievement and to reduce early behavioral problems of school children.
Role: Statistician (methods development)

P30MH38330 (Richard H. Price, P.I) 07/01/99-06/30/00
NIMH to Michigan Prevention Research Center at the Institute for Social Research.
Randomized field experiment designed to promote reemployment and mental health among unemployed workers.
Role: Statistician (methods development)

R01 DA11796 (Nicholas Ialongo, PI) 11/01/00-05/31/02
NIDA
Follow-up of Two Universal Preventive Interventions: The aim of the proposed methodological development is to deal with two very common problems in intervention practice: noncompliance and clustering of subjects.
Role: Statistician (methods development)

R01 MH40859-12A1 (C. Hendricks Brown PI) 07/01/02-03/31/03
NIMH
This is the continuation of the previous grant entitled Statistical Methods for Mental Health Preventative Trials. The project focuses on new designs for randomized preventive field trials, new methodology including mixtures of growth curves to examine differential trajectories within a field trial, and methods for handling missing data, including selection bias, participation bias, and attrition.
Role: Statistician (methods development)