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Tallahassee, FL 32306-4453
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EDUCATION

- Ph.D.** **Florida State University**, Tallahassee, FL
Educational Psychology & Learning Systems | Measurement & Statistics Program
Dissertation: Mixture item response theory-MIMIC model: A simultaneous estimation of differential item functioning for manifest groups and latent classes. (Advisor: Akihito Kamata, Defended in Summer 2009, Graduation: Fall 2009).
- M.Sc.** **Istanbul Technical University**, Istanbul, Turkey
Project Management, 2002
- B.Sc.** **Istanbul Technical University**, Istanbul, Turkey
Civil Engineering, 1994

PROFESSIONAL EXPERIENCES

- Aug.2009 to Current** **Florida State University**, Tallahassee, FL
Educational Psychology & Learning Systems | Measurement & Statistics Program
Visiting Assistant Professor
- EDF5401-General Linear Models(GLM): Fall 2009, Spring 2010, Summer 2010
 - EDF5402-ANOVA: Fall 2009, Spring 2010
 - EDF5432-Measurement Theory I: Spring 2010, Summer 2010
- Aug. 2004 to Aug.2009** **Florida State University**, Tallahassee, FL
Educational Psychology & Learning Systems | Measurement & Statistics Program
- Research Assistant*
I assisted Dr. Akihito Kamata for the “Differential Item Functioning Analyses for Students with Test Accommodations on NAEP test items” project which was granted by the U.S. Department of Education, Institute of Educational Science.
- Teaching Assistant*
- EDF5406-Multivariate Analyses: Summer 2006, Summer 2008 , Summer 2009
 - EDF5434-Measurement Theory II: Fall 2008
- Instructor*
- EDF5406- Multivariate Analyses: Summer 2007, Spring 2008.
- Aug. 2005 to Aug.2007** **Florida Department of Education**, Tallahassee, FL
Office of Assessment & School Performance | K-12 Scoring & Reporting
Intern
- I assisted psychometric and assessment staff on psychometric related work for the statewide testing program for K-12 students in Florida (FCAT Test in Reading, Mathematics, Science and Writing). I actively involved in replicating item parameter calibrations, equating and scoring process of the FCAT and had opportunities to present four studies regarding issues related to practical implications of psychometric characteristics of FCAT.

**Dec. 1999 to
Jul. 2004**

Finansbank A.S., Istanbul, Turkey
Retail Banking | Product Management and Marketing Dept.
Manager (2003-2004)
Assistant Manager (1999 to 2003)

- Product Management: Western-Union Money Transfer, Retail Payment Products, Insurance
- Retail Branch Network & Concept Management

**Sep. 1996 to
Mar. 1999**

Demirbank A.S., Istanbul, Turkey
Retail Banking | Retail Banking Project.
Analyst

- Corporate Identity & Branch Design Project Team Member
- Credit Card Loyalty Program Project Team Member

ACADEMIC WORK

Publications

- Bilir, M. K., Binici, S., & Kamata, A. (2008). Growth Mixture Modeling: Application to Reading Achievement Data from a Large Scale Assessment. *Measurement and Evaluation in Counseling and Development*, 41,104-119.

Dissertation

- Bilir M.K. Mixture item response theory-MIMIC model: A simultaneous estimation of differential item functioning for manifest groups and latent classes. Doctoral Dissertation. (Defended in Summer 2009).

Presentations at Professional Conferences

- Bilir M.K. & Kamata A. (2009). Simultaneous Estimation of Differential Item Functioning for Manifest Groups and Latent Classes. Poster presented at the annual meeting of National Council on Measurement in Education, San Diego, California.
- Kamata A., Kim, R.S. & Bilir M.K. (2009). Investigation of the Utility of the Bayesian Mixture-Item DIF Detection Model. Paper presented at the annual meeting of National Council on Measurement in Education, San Diego, California.
- Kamata A., Kim, R.S. & Bilir M.K. (2008). Comparison of Mixture Model and Relative Model in DIF Detection via Two-Level Logistic Regression: A Bayesian Approach. Paper presented at 53rd Annual Meeting FERA, Orlando, Florida.
- Bilir M.K., Kim, R.S., & Kamata A. (2007). Utility of Mixture Item Response Theory Models and Multilevel Item Response Theory Models to Capture Heterogeneity of Item Difficulties. Paper presented at 52nd Annual Meeting FERA, Tampa, Florida.
- Fukuhara, H., Bilir, M.K., Park, S., & Kamata A. (2007). The Effect of Content Representation for Anchor Items in IRT Equating: A Simulation Study. Presented at 52nd FERA Annual Meeting Tampa, Florida.
- Bilir, M. K., Binici, S. & Kamata, A. (2007). Growth Mixture Modeling (GMM): Application to Reading Achievement Data from a Large Scale Assessment. Paper presented at MWERA Annual Conference, St. Louis, Missouri.
- Bilir, M. K., & Binici, S. (2007). Growth Mixture Analysis of Reading Achievement in Large Scale Assessment via MPlus. Poster presented at the National Council on Measurement in Education, Chicago, Illinois.
- Binici, S. & Bilir, M. K. (2006). Explanatory Differential Item Functioning via HLM and SAS NL MIXED Procedure. Paper presented at the annual meeting of National Council on Measurement in Education, San Francisco, California.
- Kamata, A. Chaimongkol, S., Genc, E., & Bilir, M. K. (2005). Random-Effect

Differential Item Functioning Across Group Units by the Hierarchical Generalized Linear Model. Paper presented at the annual meeting of American Educational Research Association, Montreal, Canada.

Courses Taught

In addition to the courses taught below, I will be teaching Measurement Theory I, GLM and ANOVA in Spring and Summer 2010.

- *EDF5401-General Linear Models(GLM)* at FSU: Fall 2009
This is a graduate-level advance statistics course in the College of Education. Topics; Simple Regression, Multiple Regression, Dummy Variables, Interaction, ANCOVA, ATI Model, Logistic Regression.
- *EDF5402-ANOVA* at FSU: Fall 2009
This is a graduate-level advance statistics course in the College of Education. Topics; One-way ANOVA, Factorial ANOVA (2 way), Within-subjects ANOVA, Mixed Design ANOVA, ANCOVA.
- *EDF5432-Multivariate Statistics* at FSU: Summer 2007 , Spring 2008
This is a graduate-level advance statistics course in the College of Education. Topics; Exploratory Factor Analysis, Confirmatory Factor Analysis, Path Analysis, MANOVA, Multinomial Logistic Regression, Discriminant Analysis and Canonical Correlation. Supervised by Akihito Kamata.

Professional Affiliations

- National Council on Measurement in Education (NCME)
- American Educational Research Association (AERA)
- Florida Educational Research Association (FERA)

PROFESSIONAL SERVICE

Manuscript Review for Journals

Psychometrika (1 manuscript in 2006).

Proposal Review for Professional Conferences

- Florida Educational Research Association (FERA) (Paper Session)
- Symposium Series: Assessment in the 21st Century: Insight. (Poster Session)
- FERA 2008 Graduate Student Poster Session

Department Service at FSU

- Search Committee member for a faculty position in Measurement & Statistics at FSU (faculty member, Fall 2009).
- Symposium Series: Assessment in the 21st Century: Insight. (at FSU). Poster Session Review Committee Member (2008).
- Search Committee member for a faculty position in Measurement & Statistics at FSU (student member, Fall 2006 and Fall 2005).

Other Service

- Member of Training and Professional Development Committee for National Council of Measurement in Education (NCME) (2009).
- Graduate Student Coordinator for Florida Educational Research Association (FERA) Conference (2007-2008).
- Co-chair of Graduate Student Poster Proposal Review Committee for Florida Educational Research Association (FERA) (2008).
- Facilitator for the Graduate Student Special Session “Meet the Experts” for Florida Educational Research Association (FERA) Conference (2007).