

CURRICULUM VITA
M. Kuzey Bilir

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Education

- Ph.D.* **Florida State University**, Tallahassee, FL (Measurement and Statistics in Education, Expected Graduation: Summer 2009)
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).
- 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
Visiting Assistant Professor
Measurement & Statistics Program
Educational Psychology & Learning Systems

Aug. 2004 to Aug.2009 **Florida State University**, Tallahassee, FL
Research Assistant (2004-current)
Teaching Assistant (2006-current)

Responsibilities

- Assisted the project of Dr. Akihito Kamata, “Differential Item Functioning Analyses for Students with Test Accommodations on NAEP test items” which was granted by the Institute of Educational Science - U.S. Department of Education.

- Teaching Assistant for
 - EDF-5406 “Multivariate Analyses” for Summer 2006 and Summer 2008.
 - EDF-5434 “Measurement Theory II” for Fall 2008.
- Instructor of EDF 5406 “Multivariate Analyses” for Summer 2007 and Spring 2008.

*Aug. 2005 to
Aug. 2007*

Florida Department of Education, Tallahassee, FL
Office of Assessment & School Performance
K-12 Scoring & Reporting
Intern

Responsibilities

- I assisted psychometric and assessment staff at the FLDOE on psychometric related work for the statewide testing program for K-12 students in Florida (FCAT) 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 for FLDOE staff.

*Dec. 1999 to
Jul. 2004*

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

Responsibilities

- **Product Management (Western Union Money Transfer, Retail Payment Products, Insurance)**
Product Marketing, Campaign Management, Product & Service Development, Research & Analyses, (Determination of potential customer segments and their behaviors to provide tailored products and campaigns to increase and retain market share), Internal Notifications, Reporting, Answering Customer Request & Questions etc.
- **Retail Branch Network & Concept Management**
Macro and Micro Site Analyses regarding Branch Network Optimization
Branch Concept Analyses & Projects
Mobile Branch, Work Flows, Q-Matic, Internet Kiosk, In- Store Branches:
Research & Analyses regarding worldwide applications of In- Store Branches (Marketing, Products & Service, Incentives etc); Relations with the Store Management; Procedures

Sep. 1996 to
Mar. 1999

Demirbank A.S., Istanbul, Turkey

Retail Banking

Retail Banking Project.

Analyst (1996 to 1999)

Responsibilities

- **Corporate Identity & Branch Design Project Team Member**
Assistant to Project Manager; Cost; Time; Contract Management of the project; communications between; Contract Administrator (McKinsey Co.), U.S. Design Consultant (Walker Group), Local Architect and Related Departments of Demirbank (Retail Banking, Premises, PR and IT).
- **Credit Card Loyalty Program Project Team Member**
Building the Economic Model of Credit Card Loyalty Program

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, November 2008.

- 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 NLMIXED 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

Multivariate Statistics (Summer 2007 & Spring 2008) at FSU

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.

Professional Affiliations

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

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

- 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, 2006).
- Search Committee member for a faculty position in Measurement & Statistics at FSU (student member, 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).