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 INFORMATION

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EDUCATION

**The Pennsylvania State University**, University Park, PA

Ph.D. Candidate, Statistics

- Thesis Topic: “The recent history functional linear model”
- Advisors: Professors Damla Şentürk and Runze Li

**Yonsei University**, Seoul, South Korea

M.A., Applied Statistics, February 2005

- Thesis Topic: “The comparison of IRLS with spline basis and local scoring algorithm in the estimation of generalized additive models”
- Advisor: Professor Yunkee Ahn

B.A., Business and Applied Statistics, February 2003

ACADEMIC  
 EXPERIENCE

**The Pennsylvania State University**, University Park, PA

*Instructor*

- **Stat 401: Experimental Methods I** **Spring 2008-Spring 2009**  
 - Textbook: *Introduction to Statistics for Engineering Students* (Michael Akritas, 2009)  
 - Taught approximately 50 junior and senior students from the College of Engineering, introducing statistical thinking, and enhancing the ability to apply correct testing procedures to research questions
- **Stat 200: Elementary Statistics** **Summer 2008**  
 - Textbook: *Mind on Statistics* (Utts *et al.* 2008)  
 - Taught approximately 30 freshmen and sophomore students, providing the basic concepts of statistics

*Research Assistant*

- Research assistant for Methodology Center, **Fall 2009 to present**  
 - Attended weekly meetings and communicated with non-statistical professionals  
 - Broadened the range of knowledge on current issues of social sciences such as education, behavioral science, and sociology.
- Research assistant for Professor Runze Li, **Summer 2007, Summer 2009**  
 - Carried out research on the development of a statistical method for sparse longitudinal data

*Teaching Assistant*

**August 2005 to December 2007**

- Assisted Stat 200, Stat 250, Stat 418, and Stat 401.
- Served as point of contact for 50-120 students per semester regarding their grades, academic schedules, etc.
- Made solutions, graded homework and exams, and joined lab classes

- Held office hours to answer questions of students and clarify their own confusion and created opportunities to foster their critical thinking

**Institute of Statistical Science, Yonsei University**, Seoul, Korea

*Instructor*

- **Introduction to SPSS** **Winter 2004**
  - Taught approximately 30 students with various backgrounds and ages on how to use SPSS in their research

**Hanshin University**, Seoul, Korea

*Instructor*

- **Data analysis with Excel** **Spring 2005**
  - Taught statistical computing using Excel to approximately 50 students from the department of information statistics

PUBLICATIONS      Kim, K., Şentürk, D., and Li, R., “The recent history functional linear models,” under review, *Festschrift in honor of Tom Hettmansperger*, IMS-LNMS edited by David Hunter, Jim Rosenberger, and Donald Richards

PAPERS IN PROGRESS      Kim, K., Şentürk, D., and Li, R., “The recent history functional linear models for longitudinal data”  
 Kim, K., Şentürk, D., and Li, R., “The recent history functional linear models for sparse longitudinal data”

CONFERENCES ATTENDED      *2009 Joint Statistical Meeting, Washington D.C.* **August 1-6, 2009**

- “The recent history functional linear models for sparse longitudinal data,” contributed paper presentation

*The 2009 Rao Prize Conference, PA* **May 22, 2009**

- “The recent history functional linear models for longitudinal data,” poster presentation

*Conference on Statistical Method for Complex Data: In Honor of Raymond Carroll, College Station, TX* **March 13-14, 2009**

- “The recent history functional linear models for longitudinal data,” poster presentation

*2008 Joint Statistical Meetings, Denver, CO* **August 3-7, 2008**

- “The recent history functional linear model,” contributed paper presentation

*Nonparametric Statistics and Mixture Models: Past, Present, and Future, University Park, PA* **May 23-24, 2008**

- “The recent history functional linear model,” poster presentation

PROFESSIONAL  
EXPERIENCE

**Statistical Consulting Center**, University Park, PA

*Graduate Statistical Consultant*

**January 2007 to December 2007**

- Conducted 7 consulting projects requested from agriculture, chemistry, public health, and forestry
- Gained the experience of interdisciplinary studies and collaboration by meeting other disciplines and conversing with faculty members and peer consultants
- Prepared reports for clients, including the background of suggested statistical methodologies, and detailed analysis procedure
- List of projects:
  - “*Vitamin and fatty acid analysis of beef from pasture confinement-fed cattles*”
  - “*Prevention of respiratory disease in producing agriculture*”
  - “*Abiotic stabilization of Nitrate*”
  - “*Soil P-dynamics in effluent irrigation system*”
  - “*Butanol production on a trickle bed reactor*”
  - “*Prevalence of obesity and diabetes trends in Pennsylvania adults*”
  - “*Fire return Interval analysis*”

**Institute of Statistical Science, Yonsei University**, Seoul, South Korea

*Statistical Consultant*

**February 2005 to June 2005**

- Cleansed large datasets from multiple servers measured every 1-5 minutes, and extracted information of interest using intensive computing
- Constructed a statistical model to forecast a breakdown of network servers

REFEREE

Festschrift in honor of Tom Hettmansperger, IMS-LNMS

HONORS AND  
AWARDS

Assistantship, Methodology Center

**August 2009 to present**

Assistantship, Department of Statistics, the Pennsylvania State University

**August 2005 to Spring 2009**

Travel Award, Conference on Statistical Method for Complex Data: In Honor of Raymond Carroll

**January 2009**

Travel Grant, Department of Statistics, the Pennsylvania State University

**Spring 2008- Fall 2009**

Assistantship, Department of Applied Statistics, Yonsei University, South Korea

**March 2003 - February 2005**

PROFESSIONAL  
MEMBERSHIPS

American Statistical Association

Institute of Mathematical Statistics

Eastern North American Region, International Biometric Society

COMPUTER SKILLS

Software: Matlab, R, S-plus, SAS, SPSS, MINITAB

Programming: Basic knowledge of C++, Java and HTML

VISA STATUS

Non-resident (F-1)

REFERENCES

**Damla Şentürk**

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