

Summary

- Excellent analytical background in statistics, operations research, and mathematics
- Proficient in statistical modeling (R, SAS, SPSS, JMP, and Matlab)
- Experience analyzing and interpreting large datasets
- Strong written and oral communication skills (white papers, reports, presentations)
- Good interpersonal skills and ability to work effectively in a multi-disciplinary team
- Have work authorization (green card). Available to start work immediately.

Education

Georgia Institute of Technology

Atlanta, GA

- **Ph.D.** in Industrial Engineering (Operations Research)

2006

*Received the IIE **Doctoral Dissertation Award***

Third Place - 2008

GPA: 3.92/4.00

- **M.S.** in Statistics

2005

GPA: 4.00/4.00

Bilkent University

Ankara, Turkey

- **B.S.** in Industrial Engineering

2001

GPA: 3.60/4.00

Experience

Scientist

2007-Present

Predictix LLC, Promotion Planning and Forecasting Business Unit, Atlanta, GA

- Conducted statistical analysis on large datasets using R, SAS, JMP, and Python.
- Utilized time series analysis, generalized regression models, ANOVA, smoothing methods, categorical data analysis, clustering methods, and Bayesian techniques. Interpreted the results, prepared reports, charts, and documents to support the analysis.
- Adapted analytic methodologies and underlying theories in statistics and operations research to address customer problems such as forecasting and optimizing demand effects. Determined the scope and plan for projects. Formulated modeling efforts working as a member of the science team.
- Worked on forecasting and decision making in the context of B2B pricing and promotion planning for retailers.
- Prepared extensive documentation, presentations, and reports both for internal purposes and customers.
- Interacted with customers to understand the business practices and deliver applicable solutions. Successfully worked with various big name customers.

Visiting Assistant Professor

Fall 2006 – Summer 2007

University at Buffalo, SUNY, Department of Industrial and Systems Engineering

- Conducted and published research on large scale statistical experiments in simulation.
- Taught graduate and undergraduate level operations research and statistics courses.

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Experience Continued

Simulation Analyst

May 2006 – Aug 2006

Imagine That Inc., San Jose, CA, Engineering Division

Developed and tested discrete event simulation models for the new release of Extend Simulation Software.

Graduate Research Assistant

Fall 2002 – Summer 2006

Georgia Institute of Technology, School of Industrial and Systems Engineering

Worked in projects involving analysis of large scale statistical experiments. Used SAS, SPSS, Matlab, and C.

Statistics Knowledge Base

- Generalized Linear Models
- Clustering and Models for Categorical Outcomes
- Time Series Analysis
- Experimental Design
- Power (Sample Size) Analysis and ANOVA
- Multivariate Data Analysis
- Bayesian Statistics, Non-parametric Methods, Least Square Methods

Operations Research Knowledge Base

- Stochastic Modeling and Stochastic Optimization
- Decision Analysis and Decision Making under Uncertainty
- Simulation and Simulation Output Analysis
- Markov Chain Monte Carlo Methods
- Health Applications in Operations Research

Software Skills

- **Statistical:** R, SAS, SPSS, Matlab
- **Programming:** C/C++, Python
- **Office:** MS Word, MS Excel, MS Powerpoint
- **Database Related:** SQL, MS Access
- **Industry Specific:** ZPSS (Zilliant Precision Pricing Suite), Rpas (Oracle Retail Predictive Application Server), ProfitLogic Price (Markdown Optimization Solution)

Publications / Presentations

- Publications in the following refereed journals: Naval Research Logistics, Operations Research Letters, and European Journal of Operations Research.
- Presentations at national conferences.
Details available upon request.