

OBJECTIVE An entry-level engineering position in the area of traffic/transportation engineering

EDUCATION **New Jersey Institute of Technology, Newark, NJ**
Ph.D. candidate, Civil and Environmental Engineering January 2005 – Present
New Jersey Institute of Technology, Newark, NJ
MS Civil and Environmental Engineering, January 2005
Polytechnic Institute of NYU, Brooklyn, NY
MS Transportation Planning and Engineering, May 2002
Chung-Ang University, Seoul, Korea
B.S. Civil Engineering, February 1999

EXPERIENCE

Graduate Research Assistant

- 01/2009-Present **Intelligent Transportation System Resource Center, FHWA-NJDOT**
- Developed data collection plan and methodology
 - Compared & evaluated traffic monitoring technologies (TRANSMIT, Bluetooth, INRIX, GPS)
- 09/2007-Present **Variability of Travel Times on New Jersey Highways, FHWA-NJDOT**
- Processed & analyzed GPS based travel time data using MATLAB
 - Wrote project report
- 05/2006-09/2008 **Stability and Accuracy of HCM Level of Service in Darkness and Adverse Weather, USDOT-FHWA & NJDOT**
- Collected traffic data under adverse weather from
 - Processed traffic data using Video Image Processor
- 02/2004-07/2005 **Computer Modeling and Simulation of New Jersey Signalized Highways (Part II - Cost/Benefit Analysis), USDOT-NCTIP & NJDOT**
- Estimated impact of signal timing optimization on NJ 23 & NJ 42/322
 - Developed benefit calculation tool using Microsoft Excel
 - Wrote project report
- 09/2004-07/2005 **Computer Modeling and Simulation of New Jersey Signalized Highways (Part I - Optimization), USDOT-NCTIP & NJDOT**
- Developed SYNCHRO model for NJ 23 & NJ 42/322
 - Evaluated new signal timing directives

Graduate Teaching Assistant

- 09/2006-12/2006 **Undergraduate Class: Introduction to Transportation Systems**
- Instructed CORSIM simulation

COMPUTER SKILLS

- SYNCHRO/SIMTRAFFIC, CORSIM, PARAMICS,
- Highway Capacity Software (HCS), ArcGIS, TransCAD, MATLAB

AWARDS AND FELLOWSHIP

- 01/2008 • International Road Federation (IRF) Fellowship
11/2007 • NJDOT 9th Annual Showcase Best Student Research Award
04/2005 • Korean-American Scientist and Engineers Association Fellowship

- PUBLICATIONS**
- Kim Kitae and Steven Chien, "Simulation Analysis of Energy Consumption for Various Train Controls and Alignment", Transportation Research Board 88th Annual Meeting, January 2009
 - Steven Chien, Sunil Kumar Daripally, and Kitae Kim, "Development of a Probabilistic Model to Disseminate Bus Arrival Time", Journal of Advanced Transportation, Vol. 41, No. 2, 2007
 - Steven Chien, Kitae Kim, and Janice Daniel, "Cost and Benefit Analysis for Optimized Signal Timing Case Study: New Jersey Route 23", ITE Journal, Vol. 76, No. 10, 2006

- AFFILIATION**
- Student member of Institute of Transportation Engineers (ITE)
 - Member of International Road Federation (IRF)

- REFERENCE**
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 - Kyriakos Mouskos, Ph.D., Research Professor, Institute for Transportation Systems
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