

Kan Li

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EDUCATION

University of Texas - Health Science Center at Houston		<i>Aug 2013</i>
<ul style="list-style-type: none">• Ph.D. in Biostatistics (in progress)		
M.S. Industrial Engineering	University of Pittsburgh	<i>May 2011</i>
<ul style="list-style-type: none">• GPA: 3.86/4.0• Concentration: application of operations research to healthcare delivery		
B.S. Industrial Automation	Beijing Institute of Technology	<i>July 2009</i>
<ul style="list-style-type: none">• GPA: 3.75/4.0• Concentration: measurement, instrumentation, process automation and process operations		

WORK EXPERIENCE

University of Pittsburgh, Center for Public Health Practice		<i>Sep. 2011 - present</i>
Research Associate		
<ul style="list-style-type: none">• Provide expertise in quantitative methods to public health projects throughout the Department.• Assist teams on sampling design and data collection.• Conduct data manipulation and advanced statistical analysis for specific research objectives.• Develop simulation and optimization models for decision analysis using object oriented programming.• Serve as primary author for the statistical and methodological sections of manuscripts and presentations.		
University of Pittsburgh, Public Health Dynamics Laboratory		<i>Jan. 2010 - Aug. 2011</i>
Graduate Research Assistant		
<ul style="list-style-type: none">• Applied a variety of operations research techniques to solve operational and management problems in healthcare delivery.• Developed mathematical models to optimize system performance in resource allocation, capabilities-based planning and cost control.• Developed complex spreadsheet models with VBA in EXCEL to analyze cost-benefit and assess courses of action.• Assisted with presentation of results and scientific papers for publication.		
University of Pittsburgh, School of Engineering		<i>Fall 2010, Spring 2011</i>
Teaching Assistant/Fellows		
<ul style="list-style-type: none">• Simulation with Arena (Undergraduate)<ul style="list-style-type: none">– Conducted a three-hour weekly lecture independently for 13 sessions during the semester.– Organized class activities, made original lecture materials, exercises, homework and quizzes.– Guided students on their semester projects and held regular office hours.• Statistics and Data analysis (Graduate)• Engineering Computing II - MATLAB & C++ (Undergraduate)<ul style="list-style-type: none">– Coordinated with instructor on class activities.– Held regular office hours to tutor students in course works.		

PROJECT EXPERIENCE

Social Mixing and Respiratory Transmission in Schools

Sep. 2011 - present

- A CDC founded project that attempts to quantify the contact pattern of school age children and study respiratory transmission in school settings.
- Developed agent-based simulation models of infectious disease transmission and evaluated intervention strategies via simulation and statistical analysis.
- Parsed large data set to reconstruct social contact networks, conducted network analysis and parameterized simulation models.

Vaccine Modeling Initiative

Jan. 2010 - Aug. 2011

- The objective of the VMI is improved decision-making in the selection of new vaccine products and epidemic control policies. VMI is funded by the Bill & Melinda Gates Foundation.
- Developed computational models for optimizing vaccine wastage, distribution network design, inventory control and vaccine administration.
- Developed practical spreadsheet based tools for the use of health care workers in the field.

HONORS & AWARDS

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|---|------------------------------|
| • TA/GSRs Assistantship , University of Pittsburgh | <i>Jan. 2010 - Aug. 2011</i> |
| • Outstanding Graduating Student (Top 5%), Beijing Institute of Technology | <i>Jun. 2009</i> |
| • Honors Thesis for Bachelor Degree (2 out of 59), Beijing Institute of Technology | <i>Jun. 2009</i> |
| • National Scholarship (Top 1%), Chinese Ministries of Education | <i>Dec. 2007</i> |
| • Outstanding Student Scholarship (Top 5%), Beijing Institute of Technology | <i>2006 - 2009</i> |

CERTIFICATIONS

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|---|-------------------|
| • SAS Base Programming Certificate | <i>May. 2013</i> |
| • SAS Advanced Programming Certificate | <i>July. 2013</i> |

COMPUTER SKILLS

Programming Languages: Java, C/C++, VBA, SQL, HTML/CSS/JavaScript, XML

Statistical Packages: R, SAS, Minitab

Simulation/Optimization: Repast S, Arena, GLPK/GMPL, CPLEX

Other Software: Excel, Access, MySQL, L^AT_EX, ArcGIS, AutoCAD

Operation System: Ubuntu based Linux

REFERENCES

Shawn Brown, Director of Public Health Applications

Pittsburgh Supercomputing Center, Carnegie Mellon University

Photo: 412-760-9837

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Bryan A. Norman, Associate Professor

Department of Industrial Engineering, University of Pittsburgh

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Charles J. Vukotich, Senior Project Manager

Center for Public Health Practice, Graduate School of Public Health, University of Pittsburgh

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