

Qiang Zhen

Curriculum Vitae

Department of Mathematics,
Statistics and Computer Science
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Education

- 2010 **Ph.D. in Applied Mathematics**, *University of Illinois, Chicago*, GPA: 4.0/4.0.
Ph.D. thesis: The Sojourn Time Distribution in Processor-Sharing Queues
Adviser: Charles Knessl
- 2008 **M.S. in Statistics**, *University of Illinois, Chicago*, GPA: 4.0/4.0.
- 2004 **M.S. in Applied Mathematics**, *Nankai University*, Tianjin, China.
- 2001 **B.S. in Applied Mathematics**, *Nankai University*, Tianjin, China.

Experience

- 2009 Fall **Graduate Student Instructor**, *University of Illinois, Chicago*.
 - Math 210-Calculus IIISole instructor for the class of 13 students; fully responsible for designing and administering lectures, quizzes, exams, and homework, and assigning grades.
- 2008-2009 **Dean's Fellow**, *University of Illinois, Chicago*.
- 2005-2010 **Teaching Assistant**, *University of Illinois, Chicago*.
 - Math 090-Intermediate Algebra
 - Math 118-Mathematical Reasoning
 - Math 160-Finite Mathematics for Business
 - Math 180-Calculus IResponsible for leading 2-3 discussion sections, designing and grading quizzes, and holding office hours in *Math Learning Center*.
- 2004-2005 **Lecturer**, *Tianjin Institute of Foreign Economic Relations and Trade*, Tianjin, China.
 - Calculus I/II for Business
 - Linear AlgebraSole instructor for classes of approximately 40 students; responsible for designing and administering lectures, discussion sections, exams, and homework, and assigning grades.

Academic Interests

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| Research Interests | Asymptotic and Perturbation Methods | Applied Probability | |
| | Queueing System and Network | Stochastic Operations Research | |
| Teaching Interests | Calculus | Probability Models | Linear Algebra |
| | Vector Calculus | Introduction to Statistics | Differential Equations |
| | Complex Analysis | Mathematical Statistics | Partial Differential Equations |
| | Numerical Analysis | Stochastic Models | Computational Finance |
| | Operations Research | Theory of Interest | Actuarial Models |

Publications and Preprints

- Preprint **On a Processor Sharing Queue That Models Balking**, with J.S.H. van Leeuwen and C. Knessl, submitted.
- Publications **Asymptotic Expansions for the Sojourn Time Distribution in the M/G/1-PS Queue**, with C. Knessl, *Math. Meth. Oper. Res.* 71 (2010) 210-244.
- On Sojourn Times in the M/M/1-PS Model, Conditioned on the Number of Other Users**, with C. Knessl, *Appl. Math. Res. Express. AMRX* 2009 (2010) 142-167.
- On Sojourn Times in the Finite Capacity M/M/1 Queue with Processor Sharing**, with C. Knessl, *Oper. Res. Lett.* 37 (2009) 447-450.
- Asymptotic Expansions for the Conditional Sojourn Time Distribution in the M/M/1-PS Queue**, with C. Knessl, *Queueing Syst.* 57 (2007) 157-168.

Presentations

- Jan 2010 *On Sojourn Times in the Finite Capacity M/M/1 Queue with Processor Sharing*
AMS Joint Mathematics Meeting, San Francisco, CA
- May 2009 *On Sojourn Times in the M/M/1-PS Model Conditioned on the Number of Other Users*
Fields-MITACS Summer School in Applied Probability, Carleton University, Ottawa, Canada
- Oct 2008 *The Conditional Sojourn Time Distribution in the M/M/1-PS Queue*
Mathematics and Applications Seminar, University of Illinois, Chicago
- Jul 2008 *Asymptotic Expansions for the Sojourn Time Distribution in the Processor Sharing Queue*
SIAM Annual Meeting, San Diego, CA
- May 2008 *The Sojourn Time Distribution in the M/M/1-PS Queue Conditioned on the Service Time*
SIAM Student Chapter Student Day, University of Illinois, Chicago

Honors and Awards

- 2008-2009 **Dean's Scholar Award**, *University of Illinois*, Chicago.
One-year fellowship presented by the Dean of the Graduate College in recognition of a student's scholarly achievement.
- May 2008 **Victor Twersky Memorial Scholarship in Applied Mathematics**, *University of Illinois*, Chicago.
Presented by the Department of Mathematics, Statistics and Computer Science in recognition of a student's research achievement in applied mathematics.

Services

- 2007-2008 **Secretary & Treasurer**, *SIAM Student Chapter at University of Illinois*, Chicago.
- 2006 **Graduate Student Mentor for First-Year Graduate Students**, *University of Illinois*, Chicago.

Completion of Actuarial Exams

- Jul 2009 **Exam P/1**, *Society of Actuaries*, Score:10.
- Aug 2009 **Exam FM/2**, *Society of Actuaries*, Score:8.
- Nov 2009 **Exam MFE/3F**, *Society of Actuaries*, Score:10.