SUNGWON AHN

905 Casey Ct Unit 2 \diamond Schaumburg, IL 60173 224-578-2147 \diamond sahn02@roosevelt.edu

EDUCATION

Ph.D. in Mathematics

Purdue University, West Lafayette, IN

Aug, 2016

- Thesis: Oscillation of Quenched Slowdown Asymptotics of Random Walks in Random Environment
- Adviser: Jonathan Peterson

M.S. Mathematics Specialized in Computational Finance

Purdue University, West Lafayette, IN

Aug, 2016

B.S. Mathematics/Actuarial Science/Finance

Drake University, Des Moines, IA

Dec, 2007

Received ASA(Associate of Society of Actuaries)

Jun 2018

RESEARCH INTEREST

Probability Theory and Discrete Stochastic Process - Random Walk in Random Environment, Interacting Particle Systems.

EMPLOYMENT

Assistant Professor

Aug 2016-Current

Roosevelt University, Chicago, IL

Teaching Assistant

Aug 2009-Aug 2016

Purdue University, West Lafayette, IN

Defined Benefit Analyst

May 2006-Aug 2007

Principal Financial Group, Des Moines, IA

PUBLICATION

- 1. Quenched central limit theorem rates of convergence for one dimensional random walks in random environments(with J. Peterson), *Bernoulli Journal*, (2019)
- 2. Oscillations of quenched slowdown asymptotic for ballistic one dimensional random walk in a random environment(with J. Peterson), *Electronic Journal of Probability* (2016)

WORKING PAPER

- 1. Optimal rates of Convergence for quenched central limit theorem rates fo one dimensional random walk in random environments (with J. Peterson), in progress
- 2. Phase transition in parking process with coalescing cars(with Mattew Junge, Hanbaek Lyu), in progress

COURSES TAUGHT AT ROOSEVELT

Developmental Mathematics (Math 95/96), Spring 2017, Fall 2017, Spring 2018

Calculus(Math 231), Fall 2018

Regression & Time Series (Math 349/449), Fall 2017, Fall 2018

Actuarial Mathematics I (Math 369), Spring 2018

Numerical Analysis (Math 430), Fall 2016, Fall 2018

ANOVA & Experimental Design (Math 457), Fall 2017

Actuarial Science Seminar: Exam P (Math 480-P), Spring 2017

Actuarial Science Seminar: Exam FM (Math 480-FM), Spring 2017, Spring 2018

Topic: Applied Predictive Modeling (Math 489), Spring 2018

PRESENTATION

· Mathematics Colloquium, Roosevelt University	Mar, 2018
· Pie Day Talk, Roosevelt University	Mar, 2017
· Mathematics Colloquium, Roosevelt University	Sep, 2016
· Probability Seminar, Purdue University	Sep, 2015
· Graduate Research Day, Purdue University	Nov, 2015

Invited Talk

· Actuarial Seminar, SUNY New Paltz

Title: Essential Skills for Growing Role of Actuary

Nov, 2017

· AMS Sectional Meeting special session on "Effective Behavior in Random Environments", Northestern University, MA

Apr., 2018

Title: Quenched central limit theorem rates of convergence for one dimensional random walks in random environments

Contribution Paper Talk

 \cdot Joint Mathematics Meeting, San Diego

Jan, 2018

Title: Quenched central limit theorem rates of convergence for one dimensional random walks in random environments

WORKSHOPS AND OTHER CONFERENCES

· Mathematical Research Communities (Topic: Stochastic Spatial Models)	Jun. 2019
· Inquiry Based Learning Workshop, Depaul University, IL	Jul, 2018
· Mathfest	Aug, 2017, 2018
· Actuarial Teaching Conference, Pittsburg, PA	Jun, 2017
· Seminar on Stochastic Processes, University of Virginia, NC	Mar, 2017
· Illinois Section of the MAA Annual Meeting	Spring, 2017
· Science Education for New Civic Engagement (Cencer) Summer Institute,	2016
· Summer School in Probability, Northwestern University, IL	Jul 2016
· Midwest Probability Colloquium, Nortwestern University, IL	2014, 2015, 2016

· SOA Education Institution Grants (\$5000)

Sep, 2018

SERVICE ACTIVITIES

Journals refereed Brazilian Journal of Probability and Statistics

Electronic Communications in Probability

Joint Mathematics Meeting, San Diego (Jan 2018) Co-organizer

Panel: Assessing and Addressing Diverse Mathematical Background

COMPUTER SKILLS

Programming Languages Perl, C++, JAVA

Software Mathematica, Matlab, SAS statistical analysis, R, EXCEL

AWARDS

Iowa Collegiate Mathematics Competition (5th place), Iowa 2005 2005

Basil E. Gillam Freshman Math Competition (1st place), Drake University

ACADEMIC HONORS

Presidential Scholarship, Drake University Aug, 2004-Dec, 2007

Beta Gamma Sigma (Honor Society of Business), Drake University

PROFESSIONAL ORGANIZATION

Member American Mathematical Sciety

Mathematical Association of America

Project NExT (Blue '17)