

Hyunchul Park

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Education

Ph.D. student Mathematics, University of Illinois Urbana-Champaign, Fall 2006 - present
Academic Advisor : Renming Song

M.A. Mathematics, Yonsei University 2006

B.S. Mathematics, Yonsei University 2003
(Military service : Mar 2000 - May 2002)

Research Interest

Potential theory of discontinuous (jump) Markov processes

Papers

Sharp estimates on the Green functions of perturbations of subordinate Brownian motions in bounded κ -fat open sets with Panki Kim and Renming Song (submitted)

Talks

Yonsei university, June 2011
On Lévy Khintchine formula

Yonsei university, June 2011
Potential theory of a large class of subordinated Brownian motions and their perturbations

Seminar on Stochastic Processes, UC Irvine, March 2011
Sharp estimates on the Green functions of perturbations of subordinated Brownian motion in open sets

6th Cornell Probability Summer School, Cornell university, July 2010
Estimates of Green function for some perturbations of subordinated Brownian motion

Graduate Student Probability Seminar, UIUC, April 2010
Estimates of Green function for some perturbations of subordinated Brownian motion

Graduate Student Probability Seminar, UIUC, September 2009
Boundary Harnack principle for subordinated Brownian motions

Honors and academic experience

Graduate Teacher Certificate, May 2009

Research Experience for Graduate Students Grants, supervised by Professor Renming Song, Summer 2008

BK21(Brain Korea 21) scholarship, Mar 2004 - June 2006

Member of seminars for the Undergraduate Advanced Mathematics Program, Yonsei University, 1998-2003

Teaching experience (UIUC)

Math 231 (Calculus 2), Head TA, Fall 2011

Math 234 (Business Calculus), Large lecture Course instructor, Spring 2011

Math 220 (Calculus and *Mathematica*), Course instructor, Fall 2010

Math 231 (Calculus 2 and *Mathematica*), Course instructor, Spring 2010

Math 231 (Calculus 2), Course instructor, Fall 2009

Math 220 (Calculus), TA, Spring 2009

Math 241 (Calculus 3), TA, Fall 2008

Math 231 (Calculus 2), TA, Spring 2008

Math 241 (Calculus 3), TA, Fall 2007

Grader for linear algebra, discrete mathematics, and probability, Fall 2006 - Spring 2007

Conferences and Workshops

33rd Midwest Probability Colloquium, Northwestern University, October 2011

Seminar on Stochastic Processes, UC Irvine, March 2011

32nd Midwest Probability Colloquium, Northwestern University, October 2010

6th Cornell Probability Summer School, Cornell University, July 2010

2010 PIMS Summer School in Probability, University of Washington, 2010

31st Midwest Probability Colloquium, Northwestern University, 2009

Seminar on stochastic processes, Stanford University, March 2009

2nd International Conference on Stochastic Analysis and its Applications, Seoul National University, May 2008

Spring CAM Conference, University of Notre Dame, Feb 2008

Professional Activities

Organized Graduate Student Probability Seminar, UIUC, 2009

References

Renming Song, Department of Mathematics, UIUC, 1409 W. Green Street Urbana, IL 61801, rsong@math.uiuc.edu

Panki Kim, Department of Mathematical Sciences, Seoul National University San56-1 Shinrim-dong Kwanak-gu Seoul 151-747, South Korea, pkim@snu.ac.kr

Richard Sowers, Department of Mathematics, UIUC, 1409 W. Green Street Urbana, IL 61801, r-sowers@illinois.edu

Scott Ahlgren (teaching), Department of Mathematics, UIUC, 1409 W. Green Street Urbana, IL 61801, ahlgren@math.uiuc.edu