

Ruojun Huang

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EMPLOYMENT Courant Institute of Mathematical Sciences, USA

Courant Instructor, 2017-

EDUCATION Stanford University, USA

Ph.D. in Statistics, 2017. Advisor: Prof. Amir Dembo

M.S. in Financial Mathematics, 2012

Zhejiang University, China

B.S. in Mathematics, 2010

RESEARCH Probability theory and Stochastic processes.

INTEREST

PUBLICATIONS AND S. Ludwig, J. Sirignano, R. Huang, G. Papanicolaou. A forward-backward algorithm for stochastic
PREPRINTS control problems. *Proc. of ICORES* (2012), 83-39.

A. Dembo, R. Huang, V. Sidoravicius. Walking within growing domains: recurrence versus transience. *Elect. J. Probab.* **19** (2014), no. 106, 1-20.

A. Dembo, R. Huang, V. Sidoravicius. Monotone interaction of walk and graph: recurrence versus transience. *Elect. Comm. Probab.* **19** (2014), no. 76, 1-12.

R. Huang, T. Kumagai. Stability and instability of Gaussian heat kernel estimates for random walks among time-dependent conductances. *Elect. Comm. Probab.* **21** (2016), no. 5, 1-11.

A. Dembo, R. Huang, B. Morris, Y. Peres. Transience in growing subgraphs via evolving sets. *Ann. Inst. H. Poincaré Prob. Stat.* **53** (2017), 1164-1180.

R. Huang. On random walk on growing graphs. *Ann. Inst. H. Poincaré Prob. Stat.* (to appear)

A. Dembo, R. Huang, T. Zheng. Random walks among time increasing conductances: heat kernel estimates. *Probab. Theory Related Fields* (to appear)

R. Huang, D. Kious, V. Sidoravicius, P. Tarres. Explicit formula for the density of local times of Markov jump processes. *ArXiv:1803.06930*

A. Dembo, P. Groisman, R. Huang, V. Sidoravicius. Averaging principle and shape theorem for a growth model with memory.

R. Huang. Growing in time IDLA cluster is recurrent. *ArXiv:1809.11022*

ACTIVITIES Probability seminars: NYU Shanghai (2015), Stanford (2016), Davis (2017), Columbia-Courant (2018).

Invited visits: IMPA (2014), NYU Shanghai (2015, 2016, 2018).

Summer schools: UBC (2014), IHES (2017).

SERVICE

Referee for journals: Probab. theory related fields, ALEA.