

Ruojun Huang

- EMPLOYMENT 09/2020 - 08/2022: Junior Visiting Position, Scuola Normale Superiore di Pisa, Italy.
09/2017 - 08/2020: Courant Instructor, Department of Mathematics, New York University, USA.
- EDUCATION 06/2017: Ph.D. Statistics, Stanford University, USA. Advisor: Prof. Amir Dembo.
06/2012: M.S. Financial Mathematics, Stanford University, USA.
06/2010: B.S. Mathematics, Zhejiang University, China.
- RESEARCH AREA Probability theory, Stochastic processes.
- PUBLICATIONS
1. A. Dembo, P. Groisman, R. Huang, V. Sidoravicius. Averaging principle and shape theorem for a growth model with memory. To appear, *Comm. Pure Appl. Math.*
 2. R. Huang. Growing in time IDLA cluster is recurrent. *Electron. Commun. Probab.* **24** (2019), no. 31, 1-11.
 3. A. Dembo, R. Huang, T. Zheng. Random walks among time increasing conductances: heat kernel estimates. *Probab. Theory Related Fields* **175** (2019), no. 1-2, 397-445.
 4. R. Huang, D. Kious, V. Sidoravicius, P. Tarrès. Explicit formula for the density of local times of Markov jump processes. *Electron. Commun. Probab.* **23** (2018), no. 90, 1-7.
 5. R. Huang. On random walk on growing graphs. *Ann. Inst. Henri Poincaré Probab. Stat.* **55** (2019), no. 2, 1149-1162.
 6. A. Dembo, R. Huang, B. Morris, Y. Peres. Transience in growing subgraphs via evolving sets. *Ann. Inst. Henri Poincaré Probab. Stat.* **53** (2017), no. 3, 1164-1180.
 7. R. Huang, T. Kumagai. Stability and instability of Gaussian heat kernel estimates for random walks among time-dependent conductances. *Electron. Comm. Probab.* **21** (2016), no. 5, 1-12.
 8. A. Dembo, R. Huang, V. Sidoravicius. Monotone interaction of walk and graph: recurrence versus transience. *Electron. Commun. Probab.* **19** (2014), no. 76, 1-12.
 9. A. Dembo, R. Huang, V. Sidoravicius. Walking within growing domains: recurrence versus transience. *Electron. J. Probab.* **19** (2014), no. 106, 1-20.
 10. S. Ludwig, J. Sirignano, R. Huang, G. Papanicolaou. A forward-backward algorithm for stochastic control problems. *Proceedings of the 1st International Conference on Operations Research and Enterprise Systems* (2012), 83-89.
- INVITED TALKS
1. The 21st INFORMS Applied Probability Society Conference, session “Probability and Machine Learning”, organized by P. Groisman, Nancy 2021.
 2. Probability and Statistics Youth Forum, Zhejiang Univ, China 2019.
 3. AMS Fall Eastern Sectional Meeting, special session “Stochastic Evolutions of Discrete Structures”, organized by V. Kargin, Binghamton 2019.
 4. “Random walks in correlated and dynamical environments,” organized by E.B. Procaccia and R. Rosenthal, College Station 2018.
 5. Columbia-Courant Joint Probability Seminar at Columbia, 2018.
 6. Probability Seminar, Northwestern, 2018.
 7. Probability Seminar, CUNY, 2018.
 8. Probability Seminar, UC Davis, 2017.
 9. Probability Seminar, Stanford, 2016.
 10. Probability Seminar, NYU Shanghai, 2015.

SHORT-TERM
INVITED VISITS
SERVICE

IMPA Rio (2014), NYU Shanghai (2015, 2016, 2018), U. Buenos Aires (2019).

Refereed for *Probab. Theory Related Fields*, *Ann. Probab.*, *ALEA*, *Progr. in Probab.* (*Birkhäuser*).

TEACHING

at NYU: Calculus I, II, III.

at Stanford: Theory of Probability II, III. (teaching assistant)