

Biographical Sketch  
**Dr. Felix X.-F. Ye**

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Department of Applied Mathematics & Statistics, Johns Hopkins University, e-mail: xye16@jhu.edu

### Professional Preparation

University of Washington, Seattle, WA; Applied Mathematics; Ph.D., 2018

University of Washington, Seattle, WA; Applied Mathematics; M.S., 2013

Hong Kong University of Science and Technology, Hong Kong; Mathematics; B.S, 2011

### Professional Appointments

2018–present: **Postdoctoral Fellow**, Johns Hopkins University, Baltimore, MD

2015,2016: **PhD Internship**, Pacific Northwest National Laboratory, Richland, WA

2011: **Junior Research Assistant**, Hong Kong University of Science and Technology, Hong Kong

### Publications

(\*) corresponding author.

1. Y. Tang, A. Adelaja, **F.X.-F. Ye**, E. Deeds, R. Wollman, and A. Hoffman\*, Quantifying information accumulation encoded in the dynamics of biochemical signaling, submitted.
2. W. Huang, H. Qian, S. Wang\*, **F. X.-F. Ye\***, and Y. Yi. Synchronization in discrete-time, discrete-state random dynamical systems, *SIAM Journal on Applied Dynamical Systems*, 19(1):233–251, 2020.
3. **F. X.-F. Ye\***, and H. Qian. Stochastic dynamics II: Finite random dynamical systems, linear representation, and entropy production. *Discrete & Continuous Dynamical Systems-Series B*, 24(8):4341–4366, 2019.
4. J.H. Li, **F. X.-F. Ye\***, H. Qian, and S. Huang. Time-dependent saddle–node bifurcation: Breaking time and the point of no return in a non-autonomous model of critical transitions, *Physica D: Nonlinear Phenomena*, 395:7–14, 2019.
5. **F. X.-F. Ye\***, P. Stinis, and H. Qian, Dynamic Looping of a Free-Draining Polymer, *SIAM Journal on Applied Mathematics*, 78(1):104–123, 2018.
6. **F. X.-F. Ye**, Y. Ma, and H. Qian. Estimate exponential memory decay in hidden Markov model and its applications, *arXiv preprint*, arXiv:1710.06078, 2017.
7. Y. Ma, H. Qian\*, and **F. X.-F. Ye**. Stochastic dynamics: Models for intrinsic and extrinsic noises and their applications, *SCIENTIA SINICA Mathematica*, 47(12):1693–1702, 2017.
8. **F. X.-F. Ye**, Y. Wang, and H. Qian\*. Stochastic dynamics: Markov chains and random transformations, *Discrete & Continuous Dynamical Systems-Series B*, 21(7):2337–2361, 2016.
9. J.R. Chasnov\*, and **F. X.-F. Ye**. Evolution of recombination rates in a multi-locus, haploid-selection, symmetric-viability model. *Theoretical population biology*, 83:155-165, 2013.

### Synergistic Activities

1. Editorial board reviewers, Journal of Machine Learning Research, 6/2020-Current
2. Co-organizer, Data Science Seminar, Johns Hopkins University.
3. Graduate Student Representative, Department of Applied Mathematics, University of Washington, 2015-2016.

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4. Referee for: European Journal of Physics, Journal of Machine Learning Research, Journal of Physics A: Mathematical and Theoretical, Mathematical Reviews.

### **Honors and Awards**

1. AMS-Simons Travel Grants (\$5000 USD), 2020-2022.
2. ICIAM 2019 Travel Award (\$2500 USD), SIAM.
3. ICM 2018 Early-Career Travel Grant (\$3300 USD), AMS.
4. Olga Jung Wan Fellowship in Applied Mathematics, University of Washington, 2018.
5. Boeing Research Award, University of Washington, 2017.
6. Department of Applied Mathematics Fellowship, University of Washington, 2014.

### **Collaborators and Other Affiliations**

1. Collaborators: Hong Qian, University of Washington; Yue Wang, Institut des Hautes Études Scientifiques; Yian Ma, Google Research; Sui Huang, Institute for Systems Biology; Yingfei Yi, University of Alberta; Shirou Wang, University of Alberta; Wen Huang, University of Science and Technology of China; Panos Stinis, Pacific Northwest National Laboratory; Jeremiah Li, Gencove, Inc.
2. Graduate Advisors: Hong Qian.
3. Postdoctoral Sponsor: Mauro Maggioni.