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Research Interests	Long-range dependence, heavy tails, limit theorems, time series, sampling and resampling	
Work Experience	Assistant Professor Department of Statistics, University of Georgia, Athens, GA.	08/2016- now
Education	Boston University, Boston, MA,	09/2011-05/2016
	Ph.D. in MathematicsAdvisor: Murad S. Taqqu	
	Bejing Normal University, Beijing, China,	09/2007-07/2011
	B.S. in Mathematics and Applied Mathematics	
Preprints	 Shuyang Bai, Takashi Owada, Yizao Wang "A functional non-central limit theorem for multiple-stable Processes with long-range dependence" (2018). 	
	 Shuyang Bai, Murad S. Taqqu "Limit theorems for conservat chaos" (2018). 	ive flows on a Wiener
	 Rui Xie, Zengyan Wang, Wenxuan Zhong, Ping Ma, Shuyar subsample selection method for on-line streaming multivariate (2018). 	
Publications		
	1. Shuyang Bai, Murad S. Taqqu "Sensitivity of the Hermite rank" To appear in <i>Stochastic Processes and their Applications</i> (2018).	
	 Fumiya Akashi, Shuyang Bai, Murad S. Taqqu "Robust regress series: a self-normalized resampling approach" To appear in J Analysis (2018). 	
	 Shuyang Bai, Murad S. Taqqu. "How the instability of rank theorems affects large-sample inference under long memory" & (2018): 96-116. 	
	 Shuyang Bai, Murad S. Taqqu. "On the validity of resamplin memory" The Annals of Statistics 45.6 (2017): 2365-2399. 	g methods under long
	5. Shuyang Bai, Murad S. Taqqu. "The behavior of the generaliz at extreme parameter values". <i>The Annals of Probability</i> 45.2	-

- Shuyang Bai, and Murad S. Taqqu. "The impact of diagonals of polynomial forms on limit theorems with long memory". *Bernoulli* 23.1 (2017):710-742.
- Shuyang Bai, Murad S. Taqqu. "The universality of homogeneous polynomial forms and critical limits". Journal of Theoretical Probability 29.4 (2016): 1710-1727.
- 8. Shuyang Bai, Murad S. Taqqu, Ting Zhang "A unified approach to self-normalized block sampling". *Stochastic Processes and their Applications* 126.8 (2016): 2465-2493.
- Shuyang Bai, Murad S. Taqqu "Short-range dependent processes subordinated to the Gaussian may not be strong mixing". *Statistics & Probability Letters* 110 (2016): 198-200.
- Shuyang Bai, Mamikon S. Ginovyan, Murad S. Taqqu "Limit theorems for quadratic forms of Lévy-driven continuous-time linear processes". *Stochastic Processes and their Applications* 126.4 (2016): 1036-1065.
- Shuyang Bai, Mamikon S. Ginovyan, Murad S. Taqqu. "Functional limit theorems for Toeplitz quadratic functionals of continuous-time Gaussian stationary processes". *Statistics & Probability Letters* 104 (2015): 58-67.
- Shuyang Bai and Murad S. Taqqu. "Convergence of long-memory discrete k-th order Volterra processe". Stochastic Processes and their Applications 125.5 (2015): 2026-2053.
- 13. Shuyang Bai and Murad S. Taqqu. "Structure of the third moment of the generalized Rosenblatt distribution". *Statistics & Probability Letters* 94 (2014): 2473-2485.
- 14. Shuyang Bai and Murad S. Taqqu. "Generalized Hermite processes, discrete chaos and limit theorems". *Stochastic Processes and their Applications* 124.4 (2014): 144-152.
- 15. Shuyang Bai and Murad S. Taqqu. "Multivariate limits of multilinear polynomial-form processes with long memory". *Statistics & Probability Letters* 83.11 (2013): 2473-2485.
- 16. Shuyang Bai and Murad S. Taqqu. "Multivariate limit theorems in the context of long-range dependence". Journal of Time Series Analysis 34.6 (2013): 717-743.

Presentations

- Talk: "Instability of ranks and inference under long memory", Workshop on Self-Similarity, Long-Range Dependence and Extremes, Banff International Research Station & Casa Matematica Oaxaca, Mexico, 06/2018.
- Talk: "Resampling under Long Memory". Statistics Seminar, Department of Statistics, Purdue University, 02/2018.
- Talk: "The Long Memory Phenomenon". Statistics Seminar, Department of Mathematics and Statistics, Georgia State University, 09/2017.
- Talk: "Self-Normalized Resampling of Time Series", The 1st International Conference on Econometrics and Statistics, Hong Kong University of Science and Technology, Hong Kong. 06/2017.
- Talk: "Block Dependence and Resampling under Long Memory". Statistics Seminar, Chinese University of Hong Kong, Hong Kong. 06/2017.
- Talk: "Between-Block Dependence under Long Memory". AMS Sectional Meeting, Indiana University, Bloomington, 04/2017.

- Talk: "Block Dependence under Long Memory". Statistics Seminar, School of Industrial & Systems Engineering, Georgia Institute of Technology, 04/2017.
- 8. Talk: "Resampling under Long Memory". Stochastics Seminar, Department of Mathematics, The University of Tennessee, Knoxville, 03/2017.
- Talk: "Self-Normalized Resampling of Long-Memory Time Series". The 10th ICSA International Conference, Shanghai Jiao Tong University, China, 12/2016.
- Poster: "Self-Normalized Resampling of Long-Memory Time Series". Conference in Honor of Murray Rosenblatt, University of California, San Diego, 10/2016.
- 11. Talk: "The long Memory Phenomenon". Ying Xu Lab, Department of Biochemistry and Molecule Biology, University of Georgia, 09/2016.
- 12. Poster: "Self-Normalized Resampling of Time Series". The IMS 18th Meeting of New Researchers in Statistics and Probability, University of Wisconsin. 07/2016.
- Talk: "Self-Normalized Resampling of Long-Memory Time Series". Seminar, Department of Statistics, Southwestern University of Finance and Economics, China, 05/2016.
- 14. Poster: "Self-Normalized Resampling of Long-Memory Time Series". Workshop on Dependence, Stability, and Extremes, The Fields Institute, Toronto, 05/2016.
- Talk: "Long Memory and Mon-Standard Limit Theorems". Applied Math Seminar, University of Massachusetts Lowell, 02/2016.
- Talk: "Self-Normalized Resampling for Time Series". Boston University Statistics and Probability Seminar, Boston University, 12/2015.
- Talk: "Limit Theorems for Polynomial-Form Moving Average" CRM-PIMS Summer School in Probability, McGill University, 06/2015
- Poster: "Fractional Processes on Wiener Chaos and Non-Central Limit Theorems". Information Theory and Concentration Phenomena, Institute for Mathematics and and its Applications, University of Minnesota, 04/2015
- Talk: "Self-similar processes on Wiener Chaos". Boston University Statistics and Probability Seminar, Boston University, 12/2014.
- Poster: "Fractional processes on Wiener Chaos and Non-Central Limit Theorems". Cincinnati Symposium on Probability Theory and Applications, University of Cincinnati, 09/2014
- Talk "Wiener chaos and Limit Theorems Under Strong Dependence" Boston University Student Statistics and Probability Seminar, Boston University, 03/2014.
- 22. Poster: "Fractional processes on Wiener Chaos and Non-Central Limit Theorems". Multifractal Analysis: From Theory to Applications and Back (5-day workshop), Banff International Research Station, 02/2014.
- Talk: "Long-Range Dependence Meets Short-Range Dependence: Multivariate Limit Theorems". Satellite Summer School to the 7th International Conference on Lévy Processes, 07/2013.
- Talk: "Limit Theorems Under Independence, Weak Dependence, and Long-Range Dependence". Boston University Student Statistics and Probability Seminar, Boston University, 09/2012.

Honors and Awards	1. Office of the Provost International Travel Funds, University of Georgia, 2016.		
1 WARDS	2. Travel Award, The 18th IMS New Researchers Conference, 2016.		
	3. Itô Travel Award, International Mathematical Union, 2015.		
	4. Dean's Fellowship, Boston University, 2011.		
	 Dean o Fenowenip, Boston Chrystersky, 2011. Outstanding Undergraduate Thesis Award, Beijing Normal University, 2011. 		
	o. Cassoanang Chaoigradaace Theore Invara, Doijing Horman Chiversey, 2011.		
TEACHING EXPERIENCE	• Mathematical Analysis (2-week bootcamp for beginning graduate students)		
	• Mathematical Statistics (undergraduate/graduate)		
	• Probability (undergraduate and graduate)		
	• Stochastic Processes (graduate)		
	• Undergraduate Directed Study in Mathematical Analysis		
Review Service	Referee for the following journals:		
	• Advances in Complex Systems		
	• Bernoulli		
	• Computational Statistics and Data Analysis		
	• Electronic Journal of Statistics		
	• Fields Institute Communications Series		
	• Journal of Financial Econometrics		
	• Journal of Theoretical Probability		
	• Journal of the American Statistical Association		
	• Journal of Korean Statistical Society		
	• Physica A		
	• Scandinavian Journal of Statistics		
	• Statistics & Probability Letters		
	• Stochastic Analysis and Applications		
	• Stochastic Processes and their Applications		
	• The Annals of Probability		
	• The Annals of Statistics		
	Invited reviewer for Mathematical Reviews		

Graduate Student Advisory	PhD Advisory Committee of
	• Wenhao Pan (2018)
	• Yan Du (2018 -)
	• Weifeng Wang (2018 -)
	• Murilo Massaru Da Silva (2017 -)
	• Jiankun Zhu (2016 -)
	• Adel Bedoui (2016 - 2017)
	Master Advisory Committee of
	• Yasemin Inceoglu (2018)
	• Ho Suk Choi (2018)
	• Cun Wang (2017)
	• Sooyoung Kim (2017)
Department	
SERVICES	• Graduate Admission Committee (2016 - 2018)
	• Colloquium Organization Committee (2017 spring, fall)
	• Graduate Exam (Theory) Committee (2017 -)
	• Research Development Committee (2018 -)
LINUTDOWN	
University Services	• University Council Member (2018 -)
Quant o	Languages, English (August), Mandavin Chinage (native)
Skills	Languages: English (fluent), Mandarin Chinese (native). Computer: R, Matlab, IDL, SAS, C, LaTex, Linux, Microsoft Office, Google Docs.