## Xue-Mei Li

Talks before (2019), during (2020-2021), after pandemic lockdowns (2022-March 23)

Public Engagement Talks	
Noise, Time, and Scales, In Thematic Einstein Forum Lecture series https://mathplus.de/topic-development-lab/tef-winter-2022-23/lectur	26.01.2023 E-SERIES/
Recent Talks	
1. Workshop on Mathematical Physics In Les Diablerets' 2023	19-24 Feb 2023
What is Fractional Averaging?	
2. Analysis Seminar, Mathematics Department, Birmingham University What is Fractional Averaging?	6 Feb 2023
3. Seminar, Mathematics, Southeast University, Nanjing (online)  Multi-scale stochastic systems with fractional Brownian motions	8 Dec 2022
4. Tokyo Probability Seminar  Progress in multi-scale dynamics	5 Dec 2022
5. Conference on Stochastic Analysis and Related Topics, Osaka Univesity  Hessian estimates of the logarithmic heat kernel	2-4 Dec 2022
6. Celebrating Aida's 60th birthday, Osaka Aida, a perspective	3 Dec. 2022
7. South China University of Technology, Guanzhou (online) What is fractional averaging?	25 Nov. 2022
8. Non-local operators, probability and singularities (online)  Hessian estimates of the logarithmic heat kernel	15 Nov. 2022
9. Modern Topics in Probability, a Conference in Honor of Mark Freidlin (given on la Fractional averaging and fractional dynamics	line) 18 Oct. 2022

10.	One world probability seminar (online)  Toward an effective theory for non-Markovian multi-scale stochastic systems	13 Oct 2022
11.	Open Japanese-German Conference, Munster  Ergodic Theorems with auto-correlated noise	22 Sept 2022
12.	Mathematics of geophysical fluid dynamic models of intermediate complexity, Reading  Multi-scale stochastic systems, fractional averaging, and dynamics	9 Sept 2022
13.	New interfaces of Stochastic Analysis and Rough Paths, Banff (online)  Non-Markovian Multi-scale stochastic systems	5 Sept 2022
14.	Workshop on Stochastic and Rough Analysis Berlin  Problem arising from two scale stochastic equations with auto-correlated noise	22-26 Aug 2022
15.	Durham Symposium on Stochastic Dynamics, Nonlinear Probability, and Ergodicity  Multi-scale stochastic systems with fractional Brownian motions	22 Aug 2022
16.	Plenary lecture, at XXV Brazilian School of Probability  Multi-scale stochastic systems with fractional Brownian motions.	7-13 Aug 2022
17.	Workshop Unifying concepts in PDEs with randomness, CRM, Montreal  Two scale slow/fast non-Markovian system	16-27 May 2022
18.	CNRS-ICL meeting, Imperial College London  Differential Equations in Fast Moving Environment with auto-correlation	July 8 2022
19.	Webinar on stochastic analysis 2022, Beijing IT and Chinese Academy of Sciences  A Continuous Spectrum of Effective Motions	22 April 2022
20.	Seminar, Shandong University, Qingdao(online)  Multi-scale stochastic equations with fractional noise	6 April 2022

21.	Cardiff Mathematics Colloquium, Cardiff	8 Dec 2021
	Two scale stochastic equations with fractional noise	
	Pandemic – First in person talk	
1.	Probability and Statistics Seminar, Boston University (online)	11 Nov. 2021
	A new perspective on functional CLT and two scale dynamics	
2.	SDEs on Manifolds and Stratified Spaces, Oberwolfach (online)	08 Oct. 2021
	Do I have something to say?	
3	Seminar at FuDan University (online)	21 June 2021
3.	Second order stochastic variation and integral kernels	21 June 2021
4.	Young researchers between geometry an stochastic analysis (online)	16-18 June 2021
	mini course	2021
5.	Stochastic differential geometry and mathematical physics, Rennes (online)	7-11 June 2021
	Second order variation and the logarithmic heat kernel	2021
6.	Workshop on stochastic dynamics, Xian (online)	21 Dec 2020
	Averages fractional dynamics	
7	New directions in rough path theory, Oberwolfach (online)	6-12 Dec
,.		2020
	Rough homogenization	
8.	Probability Seminar, University of Edinburgh (online)	12 Nov 2020
	A trip to the non-Markovian county	
9.	Analysis seminar, Cardiff university (online)	4 May 2020
	Fractional noise and central limit theorem	

2019 — First lockdown

1.	Probability and Mathematical Finance Seminar, York University	24 Feb 2020
	Fractional noise and central limit theorem	
2.	Master Lectures on the history of contemporary mathematics, Tsinghua Sanya Inter	
	matics Forum	16-20 Dec 2019
	Scales and Noise	
3.	Workshop on Problems of roughness, geometry and random fluctuations, Bonn	8-11 Dec.
		2019
	Intertwined structures and Perturbation	
4.	Singular SPDEs and Related Topics, Hausdorff Institute, Bonn	20-22 Oct
	Homogenization: long range dependent noise	2019
	Homogenization. tong range dependent noise	
5.	Matematicas 1969-2019, University de la Laguna	15 Oct 2019
	Randomness, Noise, elimination, and incorporation	
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6.	Dynamics, Equations and Applications AGH University of Science and Technology, Kra	kow   16-20 Sept 2019)
	Averaging dynamics driven by fractional Noise	
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7.	Recent trends in Stochastic Analysis and PDEs, Chester University	5-6 Sept 2019
	Two scale system with memories	
8.	Beijing Normal University	13 June 2019
	Averaging dynamics driven by fBM's	
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9.	Applied mathematics institute, Beijing  Averaging dynamics driven by fBM's	12 June 2019
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10.	Plenary Lecture, The 8th International Congress of Chinese Mathematicians of 2019	10 June 2019
	Stochastic Dynamics, Geometry, and Analysis	
11	LMS Women in Mathematics, Kent	24 May 2019
	Perturbations, Stochastic Equations, and Averaging	21 May 2017
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12.	5th Cambridge student chapter SIAM-IMA	2 May 2019
	Perturbation, noise, and averaged dynamics	
13.	East Midlands Stochastic Analysis Seminars, Oxford	25 April 2019
	A new stochastic variation	
14.	Oberwolfach mini workshop	8-12 April
	•	2019
	Heat kernel estimates, comparison and second variation, and an open question	
15.	New Directions in Stochastic Analysis: Rough Paths, SPDEs and Related Topics, On	
	Professor Terry Lyons' 65th Birthday	8-12 2019
	Averaging dynamics driven by fBM's	
16.	Conference on random transformations and invariance, Verona, Italy	25-28 Mar
		2019
	Breaking and creating symmetries	

30 Jan 2019

17. Dynamical systems Seminar, Loughborough

Averaging with Non-Markovian Stochastic Systems