# Curriculum Vitae

# Yimin Xiao

Department of Statistics and Probability Michigan State University East Lansing, MI 48824 E-Mail: xiaoy@msu.edu

#### Research Interests

Stochastic Processes and Random Fields (Gaussian random fields; matrix-valued random fields; infinitely divisible random fields; Lévy processes; and Markov processes)

Stochastic Partial Differential Equations

Statistical Analysis of Random Field Models (Estimation and prediction)

Extreme Value Theory

Random Fractals, Geometry of Fractals

# Education

6/1993 to $6/1996$	Ph.D., Mathematics. The Ohio State University
	Thesis Advisor: Professor Michel Talagrand
9/1987 to 7/1990	Ph.D., Mathematics. Wuhan University, China
	Thesis Advisor: Professor Jiarong Yu
9/1984 to 7/1987	M.S., Mathematics. Wuhan University, China
9/1978 to 7/1981	Mathematics/Math Education. Yichang Normal College
,	(now part of the Three Gorges University), China

# Professional Experience

7/2018 – present	MSU Research Foundation Professor
	Department Statistics and Probability, Michigan State University
7/2005 – present	Professor
	Department Statistics and Probability, Michigan State University
7/2001 - 6/2005	Associate Professor
	Department Statistics and Probability, Michigan State University
9/2001 - 5/2002	Post-doctoral Member
	MSRI, Berkeley
8/2000 - 7/2001	Assistant Professor
	Department of Statistics and Probability, Michigan State University
8/1999 - 7/2000	Post-doctoral Researcher
	Microsoft Corporation
9/1996 - 7/1999	Post-doctoral Instructor
	Department of Mathematics, University of Utah

# Service Experience at Michigan State University

8/2020 - 8/2021	Associate Chair
	Department Statistics and Probability, Michigan State University
9/2016 - 5/2018	Diversity Consultant
	Academic Advancement Network
	Office of the Provost, Michigan State University
8/2015 - 8/2016	Acting Chair
	Department Statistics and Probability, Michigan State University
8/2012 - 8/2015	Associate Chair
	Department Statistics and Probability, Michigan State University

# Visiting Experience

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6/2024	Invited researcher
	CEMPI (European Centre for Mathematics, Physics
0.4000	and their interactions), Lille, France
3/2022	Visitor (Virtual)
	Isaac Newton Institute, Cambridge, UK
6/2018	Invited researcher
	CEMPI (European Centre for Mathematics, Physics
	and their interactions), Lille, France
5/2018	Visiting professor
	Zhejiang Gongshang University, China
3/4-3/10/2018	Visiting professor
	University of Ulm, Germany
10/2017 - 11/2017	Visiting member
,	Institut Mittag-Leffler, Sweden
6/2017	Visiting professor
,	Zhejiang Gongshang University, China
3/5-3/12/2016	Visiting professor
3/3 3/ ==/ =3=3	University of Rome Tor Vergata, Italy
5/2015-6/2015	Changjiang visiting professor
0,2010 0,2010	Beijing Institute of Technology, China
2/21-2/28/2015	Visiting professor
2/21 2/20/2019	University of Rome Tor Vergata, Italy
6/2014-7/2014	Changiang visiting professor
0/2014 1/2014	Beijing Institute of Technology, China
5/2012	* 9
5/2013	Invited professor (professeur invité)
c /9019	Ecole Central Paris, France
6/2012	Invited professor (professeur invité)
F /0011	Ecole Polytechnique Fédérale de Lausanne, Switzerland
7/2011	Visiting professor
0.10000	Hong Kong University of Science and Technology
6/2009	Invited professor (professeur invité)
	Institut Elie Cartan, Nancy-Université, France
9/2007-5/2008	Research Fellow (on sabbatical leave from MSU)
	Statistical and Applied Mathematical Sciences Institute
5/2007	Visiting professor
	Université Rene Descartes-Paris 5, France
6/2006	Invited professor (professeur invité)
	Department of Mathematics, Université de Lille 1, France
6/2005	Invited professor (professeur invité)
	Department of Mathematics, Université Paul Sabatier, France
5/2005	Visiting professor
	Philipps-Universität Marburg, Germany
8/2004, 8/2005	Visiting professor
, , ,	The National Center for Theoretical Sciences, Taipei
8/2001-6/2002	Post-doctoral Member
, ,	MSRI, Berkeley
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# Honors and awards

2023-2024 William J. Beal Outstanding Faculty Award, Michigan State University

The NatSci Outstanding Faculty Award, College of Natural Science, MSU (2023)

MSU Research Foundation Professor (July 2018 – present)

Changjiang Visiting Professorship at Beijing Institute of Technology (2013–2016)

Fellow of the Institute of Mathematical Statistics (elected in 2011)

## External Funding (2004-2023)

#### A. Research grants

- NSF grant DMS-2153846, 2022–2025. Title: Analysis and Geometry of Random Fields. Principal Investigator: Yimin Xiao. \$220,514.
- NSF grant DMS-1855185, 2019–2022. Title: Collaborative Research: Asymptotic Geometry and Analysis of Stochastic Partial Differential Equations. Principal Investigator: Yimin Xiao. \$196,441.
- 3. NSF grant DMS-1612885, 2016–2019. Title: Estimation, Prediction, and Extremes of Multivariate Random Fields. Principal Investigator: Yimin Xiao. \$120,000.
- 4. NSF grant DMS-1607089, 2016–2019. Title: Collaborative Research: Fractals, Multifractals, and Stochastic Partial Differential Equations. Principal Investigator: Yimin Xiao. \$110,000.
- 5. NSF grant DMS-1309856, 2013–2016. Title: Extreme Value Theory and Fixed-Domain Asymptotics of Multivariate Random Fields. Principal Investigator: Yimin Xiao. \$100,000.
- NSF grant DMS-1307470, 2013–2016. Title: Intermittency and Random Fractals. Principal Investigator: Davar Khoshnevisan; Co-PI: Yimin Xiao. MSU's portion: \$139,917.
- NSF grant DMS-1006903, 2010–2013. Title: Geometry of Random Fields and Stochastic Partial Differential Equations. Principal Investigator: Davar Khoshnevisan; Co-PI: Yimin Xiao. MSU's portion: \$142,609.00.
- 8. NSF grant DMS-0706728, 2007–2010. Title: Random Fields and Stochastic Partial Differential Equations. Principal Investigator: Davar Khoshnevisan; Co-PI: Yimin Xiao. MSU's portion: \$158,416.00.
- 9. NSF grant DMS-0404729, 2004–2007. Title: New Perspectives on Random Fields with Applications. Principal Investigator: Davar Khoshnevisan; Co-PI: Yimin Xiao.

#### B. Conference grants

- 1. NSF grant DMS-2309847 for the conference "Workshop on Stochastic Analysis, Random Fields, and Applications" held at Michigan State University, 2023. PIs: Yimin Xiao, Shlomo Levental, Lyudmila Sakhanenko. \$41,076.
- NSF grant DMS-1951535 for the conference "Seminar on Stochastic Processes 2020" held at Michigan State University. PIs: Yimin Xiao, Shlomo Levental, Lyudmila Sakhanenko, and Jeffrey Schenker. \$46,072.
- 3. NSF grant DMS-1241389 for NSF/CBMS Regional Conference in the Mathematical Sciences— "Analysis of Stochastic Partial Differential Equations" held at Michigan State University, 2013. Principal Investigators: Yimin Xiao and V. Mandrekar. \$34,996.

#### Teaching at Michigan State University

I have taught various statistics and probability courses at all levels, including service courses on introductory statistics in large lectures, undergraduate and graduate-level courses for students in statistics and mathematics.

#### Ph.D. Students at Michigan State University

- Dongsheng Wu, Ph.D. 2006. Professor at University of Alabama in Huntsville.
- Yun Xue, Ph.D. 2011. Director in Data Science, Nielsen.
- Wei-Ying Wu, co-advised with Dr. C. Lim, Ph.D. 2011. Professor at National Dong Hwa University, Taiwan.

- Dan Cheng, Ph.D. 2013. Assistant Professor in the School of Mathematical and Statistical Sciences at Arizona State University.
- Abolfazl Safikhani, co-advised with Dr. A. Sikorski, Ph.D. 2015. Assistant Professor in the Department of Statistics at George Mason University.
- Yuzhen Zhou, Ph.D. 2015. Associate Professor in the Department of Statistics at the University of Nebraska-Lincoln. Senior Research Scientist at Amazon.
- Jeonghwa Lee, Ph.D. 2019. Assistant Professor in the Statistics Department at the University of North Carolina at Wilmington.
- Cheuk Yin Lee, Ph.D. 2020. Assistant Professor the Department of Mathematics at the Chinese University of Hong Kong in Shenzhen.
- Nian Liu, current, Ph.D. 2024. Post-doctoral researcher in the Department of Statistics at the University of Texas Houston.
- Hanxiang Feng, Ph.D. 2024. Assistant Professor in Statistics at Minnesota State University.
- Dali Liu, current, co-advised with Dr. Haolei Weng, Ph.D. expected 2025.

## Research Supervision of Undergraduate Students at Michigan State University

Faculty mentor in the REU program at Michigan State University funded by the National Science Foundation and the National Security Agency (2016–2018, 2019–2021, 2023–2025).

#### **Professional Service**

- Member of the IMS Committee on Fellows (8/2022–8/2025).
- Panelist for National Science Foundation (2014, 2015, 2017, 2018), and NSF Graduate Research Fellowship Program (2019).
- Reviewer of grant proposals for ARO, NSA, NSF, the Natural Sciences and Engineering Research Council of Canada, the National Fund for Scientific and Technological Development of Chile, the German-Israel Foundation for Scientific Research and Development, the International Centre for Mathematical Sciences in U.K., the Israel Science Foundation (ISF), the Leverhulme Trust in U.K., the National Research Foundation of Ukraine, the Fund for Scientific Research of Belgium, the Research Grants Council (RGC) of Hong Kong, the National Science Centre of Poland, South Africa's National Research Foundation, the Swiss National Science Foundation.
- Co-Editor-in-Chief of Statistics and Probability Letters, 2011–2022.
- Managing Editor for Journal of Fractal Geometry since 2013.
- Member of Editorial Board of Science in China, Mathematics, 2015–2023.
- Member of Editorial Board of *Illinois Journal of Mathematics* since 2016.

## **Professional Society Memberships**

- American Mathematical Society
- Institute of Mathematical Statistics

#### Conference/Special Sessions Organized

- 19. Invited session "Recent Progress in Statistics Analysis of Random Field Models" at the 43rd IMS-Asia Pacific Rims Meeting, Melbourne, Australia, January 4–7, 2024.
- 18. Organizing Committee member for "Workshop on Stochastic Analysis, Random Fields, and Applications" at Michigan State University, East Lansing, August 14–16, 2023.

- 17. Contributed Session "Recent Progress in Random Fields and SPDEs" at the 43rd Conferences of Stochastic Processes and Their Applications, Lisbon, Portugal, July 24–28, 2023.
- 16. Invited Session "Limit Theorems and Inference for Time Series and Spatial Processes" at the International Chinese Statistical Association Conference, Chengdu, China, June 30 to July 3, 2023.
- 15. Contributed Session "Gaussian Processes and Related Topics" at the 42nd Conferences of Stochastic Processes and their Applications, Wuhan, China. June 27 to July 1, 2022.
- 14. Local Organizing Committee and Scientific Committee member of "Seminar on Stochastic Processes 2020" at Michigan State University, March 5–7, 2020.
- 13. Scientific Committee member of the "IMS-China International Conference in Statistics and Probability". Dalian, China. July 6–10, 2019.
- 12. Scientific Committee member of the "Workshop on Stochastic Processes and Stochastic Analysis" at Zhejiang Gongshang University, December 28–30, 2018.
- 11. Invited Session "Random Fields and Spatial Statistics" at the 5th IMS-APRM Meeting, Singapore, June 26–29, 2018.
- Special Session "Gaussian Random Fields and Stochastic Partial Differential Equations" at the IMS-China International Conference in Statistics and Probability in Nanning, China, June 26–30, 2017.
- 9. Invited Session "Random Fields in Statistics and Applications" at the 10th International Chinese Statistical Association Conference, Shanghai, China, December 19–22, 2016.
- 8. Invited Session "Random Fields in Statistics and Applications" at Joint Statistical Meeting, Chicago, July 30–August 4, 2016.
- Invited Session "Random Fields: Theory and Applications" at the 4th IMS-APRM Meeting, Hong Kong, June 27–30, 2016.
- Scientific Committee Member of the "International Workshop on Statistical Modeling of Heavytailed Phenomena with Applications", Zhejiang Gongshang University, Hangzhou, China, June 3–5, 2016.
- 5. Special Session on "Gaussian Random Fields: Theory and Applications" at the IMS-China International Conference in Statistics and Probability in Kunming, China, July 1–4, 2015.
- 4. (with Mark M. Meerschaert) Special Session "Random Fields and Long Range Dependence" at the Central Spring Sectional Meeting of the AMS. Michigan State University, East Lansing, MI on March 13–15, 2015.
- 3. Topic Contributed Session "Extreme Value Analysis of Random Fields and Applications" at Joint Statistical Meeting, Boston, August 2–7, 2014.
- (with V. Mandrekar) NSF/CBMS Regional Conference in the Mathematical Sciences
  —"Analysis of Stochastic Partial Differential Equations" at Michigan State University, August 2013.
- 1. (with Robert Dalang and Davar Khoshnevisan) The workshop on "Stochastic Analysis and Stochastic Partial Differential Equations" at Banff International Research Station for Mathematical Innovation and Discovery, Canada, April 1–6, 2012.

# Principal Lecturer at NSF/CBMS Conference 2021

I delivered ten lectures at the NSF/CBMS Regional Research Conference on "Gaussian Random Fields, Fractals, SPDEs, and Extremes" at the University of Alabama in Huntsville in August 2–6, 2021.

#### Invited Conference/Seminar Talks (2015-2024)

- 95. Statistics Seminar in the Department of Statistics at Oregon State University, October 21, 2024.
- 94. Invited speaker at the Summer Conference in Probability at Wuhan University, China, August 1–3, 2024.
- 93. Invited speaker at the conference "Recent Progress in Stochastic Analysis" in honor of Zhen-Qing Chen's 60th birthday at Loyola University Chicago, July 15–19, 2024.
- 92. Seminar speaker at Laboratoire Paul Painlevé, L'Université de Lille, France, June 11, 2024.
- 91. Invited speaker at the "Stochastic Geometry Days 2024" at L'Université de Tours, France, May 27–31, 2024.
- 90. Invited speaker at the "Stochastic Analysis and its Applications" (the John H. Barrett Memorial Lectures) at the University of Tennessee Knoxville, May 20–22, 2024.
- 89. Invited speaker at the workshop "Analysis on fractals and networks, and applications" at Centre International de Rencontres Mathématiques, Marseille, France, March 18–22, 2024.
- 88. Speaker in the Invited Session "Recent Progress in Statistics Analysis of Random Field Models" at the 43rd IMS-Asia Pacific Rims Meeting, Melbourne, Australia, January 4–7, 2024.
- 87. Colloquium speaker in the School of Economics, Hangzhou Dianzi University of Technology, Hangzhou, December 18, 2023.
- 86. Speaker in the contributed session "Recent Progress in Random Fields and SPDEs" at the 43rd Conferences of Stochastic Processes and Their Applications, Lisbon, Portugal, July 24–28, 2023.
- 85. Invited speaker at the workshop on "Stochastic Processes and Stochastic Analysis" held at Zhejiang Gongshang University, Hangzhou, China, July 5–6, 2023.
- 84. Invited speaker in the session "Advances in Theory and Statistical Applications of Random Fields" at the International Chinese Statistical Association Conference, Chengdu, China, June 30 to July 3, 2023.
- 83. Invited speaker in the workshop "Discrete Probability and Related Topics", Sichuan University, China. June 30, 2023.
- 82. Probability Seminar speaker in the Mathematics Division at the National Center for Theoretical Sciences (NCTS), Taiwan, May 26, 2023.
- 81. Probability Seminar speaker in the Department of Mathematics at the National Tsing Hua University, Taiwan, May 22, 2023.
- 80. Invited speaker (virtual) at the International Seminars in Stochastics at Amirkabir University of Technology, Iran, May 3, 2023.
- 79. Statistics Seminar speaker (virtual) in the Department of Statistics at Kansas State University, April 27, 2023.
- 78. Probability Seminar speaker in the Department of Mathematics, Statistics, and Computer Science at the University of Illinois, Chicago, April 19, 2023.
- 77. Invited session speaker at the "Special Session on Fractal Geometry and Dynamical Systems" at the Spring 2023 AMS Eastern Sectional Meeting (Virtual), April 1–2, 2023.
- 76. Statistics Seminar speaker in the School of Mathematical and Statistical Sciences at Arizona State University, March 24, 2023.
- 75. Invited session speaker at the "Special Session on Stochastic Processes and Related Topics" at the Spring 2023 AMS Southeastern Sectional Meeting, Georgia Tech, Atlanta, March 18–19, 2023.

- 74. Keynote speaker (virtual) at "The 24th Applied Stochastic Processes Workshop". Ferdowsi University of Mashhad, Iran, February 22–23, 2023.
- 73. Invited speaker (three lectures) at the "International Workshop on Random Fractals and Markov Processes" at Cadi Ayyad University, Marrakesh, Morocco, November 21–26, 2022.
- 72. Invited speaker at the 4th Conference on "Fractals and Related Fields" on the island of Porquerolles, France, September 4–9 2022.
- 71. Invited speaker at the Workshop "Expressing and Exploiting Structure in Modeling, Theory, and Computation with Gaussian Processes" at the Institute for Mathematical and Statistical Innovation (IMSI) in Chicago, August 29–September 2, 2022.
- 70. Invited speaker (virtual) at the "Probability Victoria Online Seminar" (Victoria, Australia), August 18, 2022.
- 69. Invited speaker at the CBMS Follow-Up Conference on "Gaussian Random Fields, Fractals, SPDEs, and Extremes" at the University of Alabama in Huntsville, August 12–13, 2022.
- 68. Invited session speaker at the IMS London Annual Meeting, June 27–30, 2022.
- 67. Invited speaker at the "Cornell Conference on Analysis, Probability, and Mathematical Physics on Fractals" at Cornell University, June 4–8, 2022.
- 66. Invited speaker at the workshop "Regularity of Stochastic Processes" at University of Luxembourg, May 19–20, 2022.
- Invited speaker (virtual) at the Bernoulli Society East Asian and Pacific Regional Meeting, May 7, 2022.
- 64. Invited speaker (virtual) at the workshop "Random Fields and Their Applications" dedicated to the memory of M.I. Yadrenko. Taras Shevchenko National University of Kyiv, Ukraine, April 14, 2022.
- 63. Invited session speaker at the "Special Session on Gaussian and non-Gaussian Stochastic Analysis" at the AMS Spring Central Sectional Meeting, March 26–27, 2022.
- 62. Invited speaker (virtual) at the workshop "Fractional Kinetics, Hydrodynamic Limits and Fractals", Isaac Newton Institute for Mathematical Sciences, UK, March 21–25, 2022.
- 61. Keynote speaker (virtual) at "The 23rd Applied Stochastic Processes Workshop", Department of Statistics, Shiraz University, Iran, February 15–17, 2022.
- Seminar speaker (virtual), School of Mathematics, Shandong University, China. November 24, 2021.
- 59. Seminar speaker (virtual), School of Mathematics, Zhejiang University, China. July 30, 2021.
- 58. Invited speaker (virtual) at the special session on SPDEs at the Summer Meeting of the 75th Canadian Mathematical Society, Ottawa, Canada, June 7–11, 2021.
- 57. Invited speaker at the Stochastic Webinar, Institute of Applied Mathematics, Chinese Academy of Sciences. March 17, 2021.
- 56. Keynote speaker (virtual) at "The 22nd Applied Stochastic Processes Workshop", Alzahra University, Tehran, Iran, February 2–4, 2021.
- 55. Seminar speaker (two lectures) in the Department of Mathematics at the University of California–Riverside. February 27, 2020.
- 54. Invited session speaker on "Gaussian Random Fields on the Sphere" at the 11th ICSA International Conference. Hangzhou, December 20–22, 2019.

- 53. Invited speaker at the special session on "Fractal Geometry, Dynamical Systems, and Related Topics". AMS Fall Western Sectional Meeting, University of California, Riverside. November 9–10, 2019.
- 52. Invited speaker at "The 15th Workshop on Markov Processes and Related Topics". Changchun, China. July 11–15, 2019.
- 51. Invited speaker at "The Workshop on Theory and Applications of Stochastic Partial Differential Equations". Fields Institute, Canada. June 10–14, 2019.
- 50. Seminar speaker in the Department of Mathematics at Purdue University. April 10, 2019.
- 49. Colloquium in the Department of Statistics and Actuarial Science at the University of Waterloo. March 28, 2019.
- 48. Colloquium in the Department of Statistics at Indiana University Bloomington. October 22, 2018.
- 47. Invited speaker at the session "Self-similarity and Long-range Dependence in Stochastic Processes" at the AMS Fall Central Sectional Meeting. Ann Arbor, Michigan, October 20–21, 2018.
- 46. Invited speaker at the International Conference on SPDEs, University of Alberta, Canada, September 29–October 1, 2018.
- 45. Invited speaker at the BIRS-CMO workshop "Theoretical and Applied Stochastic Analysis". Oaxaca, Mexico, September 10–14, 2018.
- 44. Invited session speaker at the 40th International Conference on Stochastic Processes and their Applications. Gothenburg, Sweden, June 11–15, 2018.
- 43. Seminar speaker at Laboratoire Paul Painlevé, L'Université de Lille, France, May 30, 2018.
- 42. Seminar speaker in the Department of Mathematics at the University of Ulm, Germany, March 6, 2018.
- 41. Seminar speaker in the Department of Mathematics at the University of Macau, December 11, 2017.
- 40. Colloquium in the Department of Statistics at Iowa State University, November 27, 2017.
- 39. Invited speaker at the Workshop on Probability and Statistics at Zhejiang University, China, November 18–19, 2017.
- 38. Distinguished lecture in the School of Mathematics, Zhejiang University, November 17, 2017.
- 37. Statistics seminar in the Department of Mathematical Sciences at Norwegian University of Science and Technology (NTNU), October 30, 2017.
- 36. Invited speaker at the workshop on "Fractal Geometry and Dynamics" at the Mittag-Leffler Institute, Sweden, October 11, 2017.
- 35. Colloquium in the Department of Mathematics, Statistics, and Computer Science at the University of Illinois in Chicago, October 4, 2017.
- 34. Invited plenary speaker at the "Research School on Harmonic Analysis, Geometric Measure Theory and Applications", Universidad de Buenos Aires, Argentina, July 31–August 11, 2017.
- 33. Invited session speaker at the IMS-China International Conference in Statistics and Probability, Nanning, China, June 26–30, 2017.
- 32. Invited speaker at the Workshop on Stochastic Processes and Applied Probability, Jilin University, June 17–18, 2017.
- 31. Probability Seminar in the Department of Finance and Statistics at East China Normal University. Shanghai, China, June 8, 2017.

- 30. Invited speaker at the Special Session "Self-similarity and Long-range Dependence in Stochastic Processes" in the AMS Spring Central Sectional Meeting, Bloomington, April 1–2, 2017.
- Colloquium speaker in the Department of Mathematics and Statistics, Auburn University. February 14, 2017.
- 28. Invited speaker (four lectures on "Theory of Gaussian Random Fields") in Department of Mathematics at South China University of Science and Technology. January 2–6, 2017.
- 27. Invited speaker at the "Workshop on Analysis on Fractals and Graphs", Tsinghua Sanya International Mathematics Forum, China, December 26–30, 2016.
- 26. Invited speaker at the 10th International Chinese Statistical Association Conference, Shanghai, China, December 19–22, 2016.
- 25. Invited speaker at "The International Symposium on Probability Theory and Related Fields", Southern University of Science and Technology, Shenzhen, China, November 26–29, 2016.
- 24. Colloquium speaker in the Department of Mathematics at Beifang University of Nationalities. August 26, 2016.
- 23. Invited speaker (five lectures on "Theory of Random Fields") at the "Summer School in Probability", Northwestern University, July 11–21, 2016.
- 22. Invited speaker at the "4th Institute of Mathematical Statistics Asia Pacific Rim Meeting", Hong Kong, June 27–30, 2016.
- 21. Invited speaker at the "8th International Conference on Stochastic Analysis and Its Applications", Beijing Institute of Technology, June 13–17, 2016.
- 20. Invited speaker at the "Workshop on Dependence, Stability and Extremes", the Fields Institute, Toronto, May 2–6, 2016.
- Invited speaker at the "Seminar on Stochastic Processes", University of Maryland, College Park, March 17–19, 2016.
- 18. Colloquium speaker in School of Mathematics at Huazhong University of Science and Technology, Wuhan, December 31, 2015.
- 17. Invited speaker (four lectures) in Department of Mathematics at South China University of Science and Technology. Guangzhou, December 27–30, 2015.
- 16. Invited speaker at the "Workshop on Applied Probability and Computational Methods in Applied Sciences", Fudan University, China, November 2–3, 2015.
- 15. Invited speaker at the conference "Fractals and Related Fields III", île de Porquerolles, France, September 19–25, 2015.
- 14. Invited speaker (two lectures) in Summer School in Probability at the Institute of Mathematics, Chinese Academy of Sciences, Beijing, July 20–21, 2015.
- 13. Probability Seminar speaker in the School of Mathematics at Peking University. July 13, 2015.
- 12. Special Invited Session speaker at the IMS-China Conference. Kunming, China, July 1–4, 2015.
- 11. Invited speaker at the 11th Workshop on Markov Processes and Related Topics. Shanghai, China, June 27–30, 2015.
- 10. Invited speaker at the Workshop on Markov Processes and Stochastic Models. Changsha, China, June 23-25, 2015.
- 9. Invited speaker at the 9th International Extreme Value Analysis Conference. University of Michigan, June 15–19, 2015.

- 8. Probability Seminar speaker in the Department of Mathematics at the University of Chicago, April 3, 2015.
- Invited session speaker at the AMS meeting at the University of Alabama in Huntsville, March 28–29, 2015.
- 6. Probability Seminar speaker at Brigham Young University March 24, 2015.
- 5. Invited session speaker at the AMS meeting at Michigan State University, March 14–15, 2015.
- Probability Seminar speaker in Department of Mathematics, University of Montreal, March 13, 2015.
- 3. Invited session speaker at the AMS meeting at Georgetown University, March 8-9, 2015.
- 2. Colloquium speaker in Department of Mathematics, University of Kansas, March 3, 2015.
- 1. Colloquium speaker in Department of Statistics, University of South Carolina, February 22, 2015.

#### Publications

- 1. Y. Xiao, Uniform packing dimension results for fractional Brownian motion. In: *Probability and Statistics Rencontres Franco-Chinoises en Probabilités et Statistiques*, eds. A. Badrikian, P. A. Meyer and J. A. Yan, pp. 211–219, World Scientific, 1993.
- 2. H. Lin and Y. Xiao, Dimension properties of the sample paths of self-similar processes. *Acta Math. Sinica N. S.* **10** (1994), 289–300.
- 3. Y. Xiao, Multiple points of Ornstein-Uhlenbeck processes of two parameters. *Chinese Ann. Math.* **16A** (1995), 8–15.
- D. Hu, L. Liu, J. Wu, Y. Xiao and X. Zhao, Random fractals. Adv. in Math. (China) 24 (1995), 193–214.
- 5. Y. Xiao and Y. Zhong, Self-intersection local times and multiple points of the stable sheet. *Acta Math. Sci.* (Chinese) **15** (1995), 141–152.
- 6. J. Wu and Y. Xiao, Some geometric properties of Brownian motion on Sierpinski Gasket. *Chinese Ann. Math.* **16B** (1995), 191–202.
- 7. K. J. Falconer and Y. Xiao, Average densities of the image and zero set of stable processes. *Stoch. Process. Appl.* **55**(1995), 271–283.
- 8. Y. Xiao, Dimension results for Gaussian vector fields and index- $\alpha$  stable fields. Ann. Probab. 23 (1995), 273–291.
- M. Talagrand and Y. Xiao, Fractional Brownian motion and packing dimension. J. Theoret. Probab. 9 (1996), 579–593.
- 10. Y. Xiao, Packing measure of the sample paths of fractional Brownian motion. *Trans. Amer. Math. Soc.* **348** (1996), 3193–3213.
- 11. Y. Xiao, Packing dimension, Hausdorff dimension and Cartesian product sets. *Math. Proc. Cambridge Phil. Soc.* **120** (1996), 535–546.
- 12. L. Liu and Y. Xiao, Results on the packing dimension of a class of Lévy processes and self-similar Markov processes. *Chinese Ann. Math. Ser. A* 17 (1996), 389–396.
- 13. Y. Xiao, Hausdorff measure of the sample paths of Gaussian random fields. Osaka J. Math. 33 (1996), 895–913.
- 14. Y. Xiao, Packing dimension of the image of fractional Brownian motion. Statist. Prob. Lett. 33 (1997), 379–387.

- 15. Y. Xiao, Weak variation of Gaussian processes. J. Theoret. Probab. 10 (1997), 849–866.
- 16. Y. Xiao, Hölder conditions for the local times and the Hausdorff measure of the level sets of Gaussian random fields. *Probab. Th. Rel. Fields* **109** (1997), 129–157.
- 17. Y. Xiao, Hausdorff measure of the graph of fractional Brownian motion. *Math. Proc. Cambridge Philos. Soc.* **122** (1997), 565–576.
- 18. Y. Xiao, Fractal measures of the sets associated to Gaussian random fields. In: *Trends in Probability and Related Analysis: Proceedings of the Symposium on Analysis and Probability 1996* (N. Kôno and N-R. Shieh, Editors), pp. 311–324, World Scientific, 1997.
- 19. Y. Xiao, Local time and related properties of multi-dimensional iterated Brownian motion. *J. Theoret. Probab.* **11** (1998), 383–408.
- 20. Y. Xiao, Hausdorff-type measures of the sample paths of fractional Brownian motion. Stoch. Process. Appl. 74 (1998), 251–272.
- 21. Y. Xiao, Asymptotic results for self-similar Markov processes. In: Asymptotic Methods in Probability and Statistics (ICAMPS'97) (B. Szyszkowicz, Editor), pp. 323–340, Elsevier Science, 1998.
- 22. L. Liu and Y. Xiao, Hausdorff dimension theorems for self-similar Markov processes. *Probab. Math. Statist.* **18** (1998), 369–383.
- 23. Y. Xiao, Hitting probabilities and polar sets for fractional Brownian motion. *Stochastics and Stochastics Reports* **66** (1999), 121–151.
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