

个人简历

姓名: 张希承 出生年月: 1973.8.3 单位: 武汉大学 邮箱: XichengZhang@gmail.com

受教育情况

- 1991.9-1995.7 于华中理工大学数学系应用数学专业学习,并获取理学学士学位
- 1995.9-2000.7 于华中科技大学数学系概率统计专业硕博连读,并获取理学博士学位

工作经历

- 1999.12-2000.09 华中科技大学数学系助教
- 2000.10-2003.06 华中科技大学数学系讲师
- 2003.07-2007.06 华中科技大学数学系副教授
- 2007.07-2010.03 华中科技大学数学与统计学院教授
- 2010.04-现在 武汉大学数学与统计学院教授

研究经历

- 2001.09-2002.09 葡萄牙里斯本大学博士后
- 2004.02-2004.08 法国La Rochelle大学博士后
- 2006.02-2007.06 德国洪堡奖学金资助于德国Bielefeld大学从事随机分析研究
- 2007.06-2009.06 澳大利亚新南威尔士大学博士后
- 2010.02-2010.04 香港城市大学访问学者
- 2014.10 美国西雅图华盛顿大学访问

主持科研项目

- 2001.01-2003.12 主持国家自然科学基金天元基金: 跳过程与Brown运动泛函的分析
- 2004.01-2006.12 主持国家自然科学基金青年项: Rieman轨道空间上的Malliavin分析
- 2003.01-2005.12 主持教育部留学回国人员基金: 轨道空间上的分析
- 2010.01-2012.12 主持国家自然科学基金面上项目: 随机流与随机偏微分若干问题研究
- 2011.01-2013.12 教育部新世纪优秀人才支持计划
- 2013.01-2016.12 主持国家自然科学基金面上项目: Levy扩散过程与非局部偏微分方程
- 2014.01-2017.12 国家自然科学基金杰出青年项目

研究兴趣

- 随机流、随机偏微分方程、Malliavin计算、Levy扩散过程、非局部偏微分方程、热核估计等

参加会议(邀请报告)

- Probability and Statistics:—an international conference in honor of P.L. Hsu's 100th birthday, Peking University, Beijing, China, July 5-7, 2010
- The 2010 International Conference on Applied Analysis , Donghua University, Shanghai, China, June 5-8, 2010
- The IMS-China International Conference on Statistics and Probability 2011, Xi'An, China, July 8-11, 2011
- Emerging Topics on Differential Equations and their Applications – Sino-Japan Conference of Young Mathematicians at Nankai University in Tianjin, China, December 5 - 9, 2011
- The Third Australia China Conference on Partial Differential Equations and Related Topics, Sydney, Australia, May 1-5, 2012
- Stochastics and Real World Models: Recent Progress and New Frontier, Xuzhou, October 15-18, 2012
- Analysis and Control of Stochastic Partial Differential Equations, Fudan University, Shanghai, December 3-6, 2012
- The 2013 ICSA International Conference, Hong Kong, China, December 20 – 23, 2013
- IMS-China International Conference on Statistics and Probability, Chendu, Sichuan, June 30-July 4, 2013
- The 9th Workshop on Markov Processes and Related Topics, Ermei Campus of Southwest Jiaotong University, Sichuan, China, July 6-13, 2013
- Hangzhou International Conference on Frontiers of Probability and Statistics, Zhejiang University, Hangzhou, December 15-17, 2013
- Joint Meeting between the IMS and Australian Statistical Conference, Sydney, Australia, July 7-10, 2014
- 7th International Conference on Stochastic Analysis and its Applications, Seoul National University, Seoul, August 6-11, 2014
- The 10th Workshop on Markov Processes and Related Topics, Xidian University, Xi'an, Aug. 14-18, 2014
- China-Germany conference on stochastic analysis, University of Science and Technology of China, Hefei, September 22-26, 2014
- The 11th Workshop on Markov Processes and Related Topics, Shanghai Jiao Tong University, Shanghai, June 27-30, 2015
- 2015北京大学随机过程理论及其在物理和生物中的应用学术研讨会, 北京大学, 2015年12月12-13

- Workshop of Probability Theory with Applications, University of Macau, Macau, Dec 19-21, 2015
- The 8th International Conference on Stochastic Analysis and Its Applications, Beijing Institute of Technology, Beijing, June 13-17, 2016
- The 12th Workshop on Markov Processes and Related Topics, Xuzhou, July 13-17, 2016
- Conference on Stochastic Partial Differential Equations and Related Fields, Bielefeld, Germany Oct 10-14, 2016
- Workshop on stochastic processes and applications, Fuzhou, Dec 9-11, 2016
- 3rd Workshop on Probability Theory and its Applications, Seoul, Korea, Dec 13-16, 2016
- The 10th ICSA international conference, Shanghai, Dec 19-22, 2016

组织会议

- 全国青年概率学者研讨会, 武汉大学, 2015年5月1-3日
- International Conference on Stochastic Analysis and Related Topics, Wuhan University, August 2-6, 2015
- Workshop on Stochastic Analysis and Related Topics, Wuhan University, Jan. 1-3, 2016

发表文章列表

- [1] Zhang X.: Fundamental solutions of nonlocal Hörmander's operators II. To appear in AOP.
- [2] Zhang X. (2016): Stochastic differential equations with Sobolev diffusion and singular drifts and applications. *Annals of Applied Probab.* Vol. 26, No. 5, 2697-2732(2016).
- [3] Xie L. and Zhang X. (2016): Sobolev differentiable flows of SDEs with local Sobolev and super-linear growth coefficients. *Annals of Probab.*, Volume 44, Number 6, 3661-3687(2016).
- [4] Zhang X.(2016): Fundamental Solutions of Nonlocal Hörmander's Operators. *Commun. Math. Stat.* (2016) 4:359-402.
- [5] Wang F.Y. and Zhang X.(2016): Degenerate SDE with Hölder-Dini drift and Non-Lipschitz noise coefficient. *SIAM J. Math. Anal.* Vol. 48, No. 3, pp. 2189-222(2016).
- [6] Dong Z., Peng, X., Song Y. and Zhang X.(2016): Strong Feller properties for degenerate SDEs with jumps. *Annales de l'Institut Henri Poincaré - Probabilités et Statistiques.* (2016), Vol. 52, No. 2, 888-897.
- [7] Chen Z. and Zhang X.(2016): Heat kernels and analyticity of non-symmetric jump diffusion semigroups. *Probab. Theory Relat. Fields* (2016) 165:267-312.
- [8] Wang F.Y. and Zhang X.(2015): Degenerate SDEs in Hilbert Spaces with Rough Drifts. *Infin. Dimens. Anal. Quantum Probab. Relat. Top.* 18 (2015), no. 4, 1550026, 25 pp.
- [9] Wang F.Y., Xu L. and Zhang X.(2015): Gradient estimates for SDEs Driven by Multiplicative Lévy Noise. *J. Funct. Anal.* 269 (2015), no. 10, 3195-3219.
- [10] Wang L. and Zhang X.(2015): Harnack inequalities of SDEs driven by cylindrical α -stable processes. *Potential Anal.* 42 (2015), no. 3, 657-669.
- [11] Wang L., Xie L. and Zhang X.(2015): Derivative formulae for SDEs driven by multiplicative α -stable-like processes, *Stochastic Processes and their Applications*, 2015(125): 867-885.
- [12] Wang F.Y. and Zhang X.(2015): Heat kernel for fractional diffusion operators with perturbations. *Forum Mathematicum* 27 (2015), 973-994.
- [13] Song Y. and Zhang X.(2015): Regularity of density for SDEs driven by degenerate Lévy noises. *Electronic Journal of Probability.* 20 (2015), no. 21, 1-27.
- [14] Chen, Z.Q. and Zhang X.(2015): Hölder Estimates for Nonlocal-Diffusion Equations with Drifts. *Commun. Math. Stat.*, Volume 2, Issue 3 (2014), Page 331-348.
- [15] Xie L. and Zhang X.(2014): Heat kernel estimates for critical fractional diffusion operators. *Studia Math.*, 224 (3) (2014) 221-263.

- [16] Zhang X.(2014): Fundamental solution of kinetic Fokker-Planck operator with anisotropic nonlocal dissipativity. *SIAM Journal of Mathematical Analysis*, Vol. 46, No. 3, pp. 2254-2280.
- [17] Zhang X.(2014): Densities for SDEs driven by degenerate α -stable processes. *Annals of Prob.*, 2014, Vol. 42, No. 5, 1885-1910.
- [18] Dong Z., Xu L., Zhang X.(2014): Exponential ergodicity of stochastic Burgers equations driven by α -stable processes. *Journal of Statistics Physics*, Vol. 15, pp 929-949(2014).
- [19] Zhang X.(2013): L^p -maximal regularity of nonlocal parabolic equations and applications. *Annales de l'Institut Henri Poincaré (C) Non-linearé.*, 30, 573-614 (2013).
- [20] Wang F.Y. and Zhang X.(2013): Derivative formula and applications for degenerate diffusion semigroups. *Journal de Mathématiques Pures et Appliquées*. Volume 99, Issue 6, June 2013, Pages 726-740(2013).
- [21] Zhang X.(2013): Degenerate irregular SDEs with jumps and application to integro-differential equations of Fokker-Planck type. *Elec. Jour. of Prob.* Vol. 18, Article 55, 1-25(2013).
- [22] Zhang X.(2013): Stochastic differential equations with Sobolev drifts and driven by Lévy processes. *Annales de l'Institut Henri Poincaré (B) Probabilités et Statistiques*, Vol. 49, No. 4, 1057-1079(2013).
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