

Curriculum Vitae

Mise à jour en jan. 2013

Name: Quansheng LIU

Born on Feb. 18, 1963 in Hunan, P.R. China.

Current position: Professor (1st class), Director for University of South Brittany (Université de Bretagne-Sud) of the Laboratory of Mathematics of Atlantic Brittany (Laboratoire de Mathématiques de Bretagne Atlantique, UMR CNRS 6205), France.

Address: LMBA, Centre de Recherche Yves Coppens,
Univ. Bretagne-Sud, Campus de Tohannic, 56000 Vannes, France

Tel: +33 2 9701 7140 **Email:** quansheng.liu@univ-ubs.fr **Website:** <http://web.univ-ubs.fr/lmam/>

Education and diplomas

- Sept. 1980 - July 1984: B. Sc. (Math.), Wuhan University
- Sept. 1984 - July 1985: M.Sc. (Complex Analysis), Wuhan University (supervisor: Prof. Yu Jiarong)
- Sept. 1987 - Nov. 1989, Ph. D.(Analysis), Wuhan University (supervisor: Prof. Yu Jiarong)
- Nov. 1989 - Feb. 1993, Ph. D. (Probability), Univ. Paris 6 (supervisor: Prof. Yves Guivarc'h)
- Sept. 1990 - Aug.1991, DEA d'Analyse Numérique (Master of Numerical Analysis), Univ. Paris 6.
- Jan. 2000: Habilitation for supervision of doctoral researches (Habilitation à Diriger des Recherches), Univ. Rennes 1.

Positions

- Sept. 2000 - present: Professor, University of South Brittany (Université de Bretagne-Sud), Vannes, France.
- Sept. 1993-Aug. 2000: Lecture / Associate Professor (MCF 2nd / 1st class), Univ. de Rennes 1.
- Sept. 1992-Aug. 1993: Assistant Teacher and Researcher (ATER), INSA de Rennes.
- Sept. 1991-Aug. 1992: Assistant Teacher and Researcher (ATER), Univ. Paris 9.

Administration

- 1) Director for University of South Brittany of the Laboratory of Mathematics of Atlantic Brittany (LMBA, Laboratoire de Math. de Bretagne Atlantique, UMR CNRS 6205): since Jan 2012. (LMBA was created on Jan. 2012 by the fusion of the Laboratory of Mathematics of Brest and the Laboratory of Mathematics and Applications of Mathematics (LMAM) of University of South Brittany; Thierry Levasseur and myself were project holders for the creation of the laboratory.)
- 2) Director of the Laboratory of Mathematics and Applications of Mathematics, University of South Brittany: Sept. 2007 – Dec. 2011;

- 3) Project holder (for the creation) and then head of the DESS Modelisation Simulation Optimisation / Master of Mathematics and Applications of Mathematics: since Sept. 2002;
- 4) Scientific Council member (conseil scientifique) of the University of South Brittany: since March 2008;
- 5) Administration Concil member of Université de Bretagne-Sud: 10/2007 - 03/2008 ;
- 6) Conseil member of the UFR Sciences et Sciences de l'Ingénieur de l'UBS: 01/2008 - 01/2009 ;
- 7) Member of the Commission of specialists (sections 25 and 26) : 2002 - 2008 ;
- 8) Council member of the Department of Mathematics, Computer science and Statistics: 2002 - 2009 ;
- 9) Directeur-adjoint du Département de Mathématiques, Informatique et Statistique: 2002 - 2005.

No. of Ph. D. students supervised or co-supervised: 8

Invited scientific stays (2008-2012):

- 1) Chinese University of Hong Kong (2 months): April, July 2008, April-May 2009.
- 2) Tsinghua university (9 weeks): 1-21 May 2012, 23 April - 7 May 2011, July-Aug. 2010, May 2009, Aug. 2008)
- 3) Beijing Normal University (5 weeks): April 2012, April 2011, July 2010, May 2009.
- 4) Peking University (2 weeks): July 2010.
- 5) Huazhong University of Science and Technology (1 week): April 2008;
- 6) Changsha University of Science and Technology (4 months): 29 March - 30 April 2008, 5 July – 4 Aug. 2008, 15-25 May 2009, 14 Dec. 2010-3 Jan.2010, July 2010, April 2011, April 2012.

Grants:

Main member of the following projects supported by the National Natural Science Foundation of China: Grant No. 10771021, Grant No. 11171044, and Grant No.11101039.

Other academic services:

- 1) Reviewer for Changjiang Chair Professors Program of the Ministry of Education of China
- 2) Reviewer for the New World Mathematics Awards 2011.
- 3) Reviewer for the following journals: (1) Ann. Prob., (2) Ann. Appl. Prob., (3) Prob. Th. Rel. Fields, (4) Stoch. Proc. Appl., (5) Adv. Appl. Prob., (6) J. Appl. Prob., (7) Ann. Inst. Henri Poincaré, (8) Markov Proc. Rel. Fields, (9) Sci. China., (10) Asian J. Math., (11) Chinese Sci. Bull., (12) Acta. Math. Sinica., (13) Acta Math. Scientia. (14) Chinese Ann. Math., (15) Australian & New Zealand Journal of Statistics. (16) Digital Signal Processing. (17) Applied Mathematics Letters (18) Complex Variables and Elliptic Equations.
- 4) Reviewer for Mathematical Reviews.

Conferences and invited talks (2007 – 2012)

- 1) December 10-14, 2012, Chinese University of Hong Kong. International Conference on Advances on Fractals and Related Topics. Talk of 30 minutes: Mandelbrot's cascade in a random environment.
- 2) July 2-4, Paris. Multifractal, non stationarity, risks. Talk of 40 minutes: Hofding's inequality for supermartingales.
- 3) June 18-22, 2012. Journées de probabilités, Roscoff, France. Talk of 40 minutes : Convergence rate in the law of large numbers for martingales.
- 4) Jan. 31 – Feb. 1st, 2012. Journées ANR MANEGE, Marseille. Talk of 1 hour: Branching random walks with a random environment in time.
- 5) April 18-22, 2011. Beijing Normal University. Workshop on Branching Processes and Coalescent Processes. Invited talk of 40 minutes: regular variation of laws stable by random weighted mean.
- 6) July 19-23, 2010, Beijing Normal Univ. Seventh Workshop on Markov Processes and Related Topics. Moments, moderate and large deviations for a branching process in a random environment. Invited talk of 30 minutes.
- 7) July 5-7, 2010. Peking University. Probability and statistics: an international conference in honor of Professor P.L.Hsu. Invited talk of 30 minutes: Extensions of a theorem of Hsu and Robbins on the convergence rates in the law of large numbers.
- 8) July 20-24, 2009: 27th European Meeting of Statisticians (EMS 2009), Toulouse, France. Invited talk: branching random walks in random environment.
- 9) Sept. 8-12, 2008: "Rencontres Franco-Chinoises en probabilités et analyse", C.I.R.M. (Centre International de Rencontres Mathématiques), Marseille - Luminy. Séjour et conférence invitée. Talk (45 minutes): large deviations for martingales and applications to directed polymers.
- 10) April 26-27, 2008: workshop on Dynamical Systems and Analysis on Fractals. Chinese University of Hong Kong. Talk (1 hour): branching random walks and Mandelbrot's cascades in random environment.
- 11) 7-11 avril 2008: The International Conference on stochastic analysis and related fields. Academy of Mathematics and Systems Science (Chinese Academy of Sciences) and Huazhong University of Science and Technology. Talk (45 minutes): large deviations for a branching random walk in random environment
- 12) Dec. 17-22, 2007: The Fourth International Congresses of Chinese Mathematicians (ICCM 2007, Hangzhou. President: Shing-Tung Yau). Invited conference: branching random walks in random environment. (45 minutes).
- 13) Aug. 27-29, 2007: The 6th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition (EMMCVPR 2007, Ezhou, China). Talk: an *a contrario* approach for parameters estimation of a motion-blurred image. (30 minutes)
- 14) Aug. 6-12, 2007: international summer school at Wuhan university: 4 hours of minicourse: branching random walks in random environment.
- 15) July 14-18, 2007: Beijing Normal University. Fifth Workshop on Markov Processes and Related Topics (BNU, July 14-18, 2007). Title: branching random walks on \mathbb{R} in random environment. (30 minutes)
- 16) March 19-23, 2007: Chinese Academy of Science. Second Sino-German Meeting on Stochastic Analysis. Invited talk of 40 minutes: a branching random walk on \mathbb{Z} in a random environment.