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# Curriculum Vitae

## Ruzong Fan

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**POSITION:** Associate Professor with tenure

### MAJOR RESEARCH INTERESTS

Statistical Genetics, Stochastic Processes and Applications

### EDUCATION

1998	Biostatistics	Ph.D.	University of Michigan, Ann Arbor
1996	Biostatistics	M.S.	University of Michigan, Ann Arbor
1988	Probability Theory	Ph.D.	Chinese Academy of Sciences, Beijing, China
1985	Probability Theory	M.S.	Yunnan University, Kunming, China
1983	Mathematics	B.S.	Yunnan University, Kunming, China

### ACADEMIC APPOINTMENTS

2006–present	Associate Professor, Department of Statistics, Texas A&M University, Department of Epidemiology and Biostatistics, School of Rural Public Health, TAMU Health Science Center
2008—2009	Visiting Associate Professor, Department of Epidemiology, MD Ander- son Cancer Center, University of Texas, Houston, TX 77030
2001–2006	Assistant Professor, Texas A&M University
1999–2001	Assistant Professor, Department of Health Evaluation Sciences, College of Medicine, Pennsylvania State University

### HONORS AND DISTINCTIONS

1982	Excellent Student Award, Yunnan University
2001	Research Fellowship, The Alexander von Humboldt Foundation, Germany

### MEMBERSHIP

1998-present	The American Society of Human Genetics
1999-present	The International Biometric Society
2000-present	The International Genetic Epidemiology Society
2000-present	The American Statistical Association
2000-present	The Institute of Mathematical Statistics

## RESEARCH GRANTS

- 2009-2010 Research and Travel Support from the Intergovernmental Personnel Act (IPA), National Cancer Institute, NIH, 25% effort and travel support
- 2007-2012 Genetic Basis for Exercise Training Responses, NIH/NHLBI 1R01 HL085918-01, Dr. Massett (PI), 5% effort, Biostatistician
- 2005-2007 Haplotype Linkage and Association Mapping of Quantitative Trait Loci, DMS-0505025, The National Science Foundation, PI, \$61,147
- 2004 International Research Travel Assistance Grant, International Center, Texas A&M University, PI, \$1,100
- 2002 International Research Travel Assistance Grant, International Center, Texas A&M University, PI, \$2,000
- 2001-2002 Pilot Project Program, Center for Environmental and Rural Health (CERH), Texas A&M University, PI, \$20,000
- 2001 Surfactant Proteins and Respiratory Distress Syndrome, NIH 4 R37 HL34788-15, Dr. Floros (PI), Collaborator as a Statistical Geneticist
- 1999-2000 Pediatric Asthma Network Data Coordinating Center, NIH/NHLBI grant 1 U10 HL64313-01, Dr. Chinchilli (PI), Co-Investigator as a Statistical Geneticist
- 1990-1992 Research Grant of Probability Theory and Stochastic Analysis, National Natural Science Foundation of China, PI

## GRADUATE STUDENTS (advisor)

### Ph.D students:

- 2001-2004 Jeusun Jung, Assistant Professor, Department of Medical and Molecular Genetics, Indiana University, School of Medicine, Indianapolis, IN 46202; Thesis: High Resolution Linkage and Association of Quantitative Trait Loci
- 2007-2010 Ming Zhong, Abbott, Research Statistician  
Thesis: Extended Homozygosity Score Tests to Detect Positive Selection in Genome-wide Scans
- 2011-present Lei Wang

### Master students:

- 2003-2004 Minghua Mei
- 2003-2005 Lijun Ren
- 2005-2007 Ming Zhong
- 2007-2008 Lianfu Chen
- 2008-2010 Yiwei Zhang
- 2009-2010 Manxi Gu
- 2008-present Qing Chang
- 2009-present Jianxu Lu

## VISITING SCHOLAR

- 2010-present Dr. Shunfang Wang, School of Information Science and Engineering, Yunnan University, Kunming 650091, P. R. China

**TEACHING EXPERIENCES**

- 2001- Texas A&M University: (1) Stat 211, Principles of Statistics I (undergraduate students); (2) Stat 651, Statistics in Research I (Master students); (3) Stat 652, Statistics in Research II (Master students); (4) Stat 661, Statistical Genetics (Master students); (5) Stat 662, Advanced Statistical Genetics (Ph.D students)
- 1999-2001 Pennsylvania State University: Statistical Genetics
- 1988-1991 Peking University: (1) Applied Stochastic Processes; (2) Martingale Limit Theory; (3) Ergodic Theory; (4) Stochastic Differential Equations and Diffusion Processes

**OTHER WORKING EXPERIENCE**

- Summer 2010 **Visiting Scholar**, National Cancer Institute, NIH
- Summer 2006 **Research Scientist**, Institute of Applied Mathematics, University of Bonn, supported by The Alexander von Humboldt Foundation, Germany
- Summer 2004 **Research Scientist**, Institute of Medical Biometry, Informatics and Epidemiology, University of Bonn, supported by The Alexander von Humboldt Foundation, Germany
- Summer 2002 **Research Scientist**, Institute of Medical Biometry, Informatics and Epidemiology, University of Bonn, supported by The Alexander von Humboldt Foundation, Germany
- 1998-1999 **Research Associate**, Center for Biostatistics in AIDS Research, Harvard School of Public Health
- 1995-1998 **Research Assistant**, Department of Biostatistics, University of Michigan
- 1994-1995 **Teaching Assistant**, Department of Biostatistics, University of Michigan
- 1994 **Research Scientist**, Institute of Applied Mathematics, University of Bonn, Germany
- 1992-1993 **Research Scientist**, Department of Mathematics, Ruhr-University Bochum, Germany
- 1991-1992 **Research Scientist**, Department of Mathematics, Humboldt-University Berlin, Germany
- 1988-1991 **Assistant Professor/Lecturer**, Department of Probability and Statistics, Peking University, Beijing, China
- 1986-1988 **Research Assistant**, Institute of Applied Mathematics, Chinese Academy of Sciences, Beijing, China
- 1985-1986 **Teaching Assistant**, Department of Mathematics, Yunnan University, Kunming, China
- 1984-1985 **Research Assistant**, Institute of Applied Mathematics, Chinese Academy of Sciences, Beijing, China
- 1983-1984 **Research Assistant**, Department of Mathematics, Yunnan University, Kunming, China

**REFEREE**

May 2011	Annals of Applied Statistics
May 2011	Statistics in Medicine
March 2011	Biomedcentral Bioinformatics
March 2011	Bioinformatics
February 2011	Statistical Applications in Genetics and Molecular Biology
October 2010	Book review for Chapman & Hall/CRC
September 2010	Annals of Human Genetics
June 2010	Bioinformatics
May 2010	Journal of Heredity
January 2010	Genetic Epidemiology
May 2009 and July	Annals of Human Genetics
May 2009	Genome Research
March 2009	Applications and Applied Mathematics: an International Journal (AAM)
January 2009	BMC-series journals
January 2009	Statistical Applications in Genetics and Molecular Biology
2008	PLoS Genetics, Genetics, American Journal of Human Genetics, Biometrics, Advances in Bioinformatics, Genetic Epidemiology, Computational Statistics & Data Analysis
2007	American Journal of Human Genetics, Statistical Applications in Genetics and Molecular Biology, Genetic Epidemiology
2006	Biomedcentral Bioinformatics, Biometrics, Genetics, Current Progress in Bioinformatics, Biomedcentral Genetics
2005	Genetics, Biomedcentral Genetics, Human Heredity, American Journal of Human Genetics, Federation of European Biomedical Societies Letters
2004	American Journal of Human Genetics, Genetic Epidemiology, Biometrics, Proceedings of National Academy of Sciences USA
2003	American Journal of Human Genetics, Nature Reviews Genetics, Human Heredity, Biometrics, Proceedings of National Academy of Sciences
2002	Genetic Epidemiology, American Journal of Human Genetics, Bioinformatics, Grant Review for The Wellcome Trust, London, UK
2001	Human Heredity, American Journal of Human Genetics, Proceedings of the Short Course on Mathematical Biology, edited by Dr. Sneyd J, American Mathematical Society
1999	Proceedings of National Academy of Sciences USA, Biometrics, Applied Mathematics Letters
1998	Theoretical Population Biology

INVITED SEMINARS

February 2011	Eunice Kennedy Shriver National Institute of Child Health and Human Development, NIH
October 2010	National Cancer Institute, NIH
June 2010	Division of Intramural Research Programs, National Institute of Mental Health, NIH
May 2010	Child Psychiatry Branch, National Institute of Mental Health, NIH
October 2009	National Cancer Institute, NIH
October 2008	Division of Biostatistics, University of Minnesota
September 2008	MD Anderson Cancer Center
December 2007	Mt Sinai Medical School
December 2007	Columbia University
February 2007	UCLA, CA
August 2006	Bonn University, Germany
May 2006	University of Alabama at Birmingham, AL
March 2006	Stanford University, CA
September 2005	Case Western Reserve University, OH
July 2004	University of Bonn, Germany
June 2002	Hawaii International Conferences on Statistics, HI
March 2000	Department of Statistics, Penn State University, College Park, PA
May 1999	Department of Health Evaluation Sciences, Penn State University, Hershey, PA
May 1999	Department of Biostatistics, University of Iowa, Iowa City, IA
April 1999	Department of Human Genetics, University of Pittsburgh, Pittsburgh, PA
March 1999	Department of Biostatistics, University of North Carolina, Chapel Hill, NC
March 1999	Department of Statistics, University of Georgia, Athens, GA
March 1999	Anderson Cancer Center, University of Texas, Houston, TX
June 1998	Department of Environmental Health, Harvard School of Public Health, Boston, MA
April 1998	Department of Biostatistics, Washington University, St. Louis, MO
April 1998	Department of Mathematics, University of South California, Los Angeles, CA
March 1998	Department of Statistics, Iowa State University, Ames, IA
March 1998	Comprehensive Cancer Center, University of Alabama, Birmingham, AL
March 1998	Department of Statistics and Department of Biostatistics, University of Wisconsin, Madison, WI
December 1997	School of Public Health, Columbia University, New York, NY
September 1993	Department of Mathematics, University of Oslo, Norway
November 1992	Department of Mathematics, University of Strasburg, France
September 1991	Department of Mathematics, Humboldt University of Berlin, Germany

## CONTRIBUTED TALKS

- March 2005 International Biometric Society, East North American Region Meeting, Austin, TX
- March 2004 International Biometric Society, East North American Region Meeting, Pittsburgh, PA
- March 2003 International Biometric Society, East North American Region Meeting, Tampa, Florida
- March 2002 International Biometric Society, East North American Region Meeting, Washington, DC
- August 2001 Joint Statistical meeting, Atlanta, GA
- March 2001 International Biometric Society, East North American Region Meeting, Charlotte, North Carolina
- August 1993 Oberwolfach Conference on Nonstandard Analysis, Germany
- July 1992 International Conference of Nonstandard Analysis, Blaubeuren, Germany
- June 1991 International Conference of Stochastic Processes, Physics and Geometry II, Locarno, Switzerland

## Monograph in press:

- Alberverio S, **Fan RZ**, and Herzberg (2011) Hyperfinite Dirichlet Forms and Stochastic Processes. The Lecture Notes of the Unione Matematica Italiana (UMI LN), Springer-Verlag, Volume 10.

## PUBLICATIONS:

1. **Fan RZ**, Zhong M, Wang SF, Zhang YW, Andrew A, Karagas M, Chen H, Amos CI, Xiong M, and Moore J, (2011) Entropy-based information gain approaches to detect and to characterize gene-gene and gene-environment interactions/correlations of complex diseases. *Genetic Epidemiology*, in revision.
2. Zhong M, Zhang YW, Lange K, and **Fan RZ** (2011) A cross-population extended haplotype-based homozygosity score test to detect positive selection in genome-wide scans. *Statistics and Its Interface*, 4:51-63.
3. Lobach I, **Fan RZ**, and Carroll RJ (2010) Genotype-based association mapping of complex diseases: a case-control approach of gene-environmental interactions with multiple markers and measurement errors in environmental exposures. *Genetic Epidemiology*, 34:792-802.
4. Zhong M, Lange K, Papp JC, and **Fan RZ** (2010) Extended homozygosity score tests to detect positive selection in genome-wide scans. *European Journal of Human Genetics*, 18:1148-1159.
5. Massett MP, **Fan RZ**, and Berk BC (2009) Quantitative trait loci for exercise training responses in FVB/NJ and C57BL/6J mice. *Physiological Genomics*, 40:15-22.
6. Chen LF, Zhong M, Chen WV, Amos C, and **Fan RZ** (2009) A genome-wide association scan for rheumatoid arthritis data by Hotelling's  $T^2$  tests. *BMC Proceedings 3 (Suppl 7):S6*.

7. Thomas NJ, DiAngelo S, Hess JC, **Fan RZ**, Ball MW, Geskey JM, Willson DF, and Floros J (2009) Transmission of surfactant protein variants and haplotypes in children hospitalized with respiratory syncytial virus. *Pediatric Research* 66:70-73.
8. Jung JS, Zhong M, Liu L, and **Fan RZ** (2008) Bi-variate combined linkage and association mapping of quantitative trait loci. *Genetic Epidemiology* 32:396-412.
9. **Fan RZ**, Liu L, Jung J, and Zhong M (2008) Combined linkage and association mapping of quantitative trait loci with missing completely at random genotype data. *Behavior Genetics* 38:316-336.
10. Yang Q, Biernacka JM, Chen MH, Houwing-Duistermaat JJ, Bergemann TL, Basu S, **Fan R**, Liu L, Bourgey M, Clerget-Darpoux F, Lin WY, Dupuis J, Elston RC, and Cupples LA (2007) Group 4: using linkage and association to identify and model genetic effects. *Genetic Epidemiology* 31 (Supplement 1):s34-s42.
11. Thomas NJ, **Fan RZ**, DiAngelo S, Hess JC, and Floros Y (2007) Haplotypes of the surfactant protein genes A and D as susceptibility factors for the development of respiratory distress syndrome. *Acta Paediatrica* 96:985-989.
12. Pavlovic J, Papagaroufalis C, Xanthou M, Liu W, **Fan RZ**, Thomas NJ, Apostolidou I, Papatoma E, Megaloyianni E, DiAngelo S, and Floros J (2006) Genetic variants of surfactant proteins A, B, C, and D in Bronchopulmonary Dysplasia. *Disease Markers* 22:277-291.
13. Floros J, Thomas N, Liu W, Papagaroufalis C, Xanthou M, Pereira S, **Fan RZ**, Guo X, DiAngelo S, and Pavlovic J (2006) Family-based association tests suggest linkage between SP-B (and flanking region) and RDS; SP-B haplotypes and alleles from SP-B-linked loci are risk factors for RDS. *Pediatric Research* 59:616-621.
14. **Fan RZ**, Jung JS, and Jin L (2006) High resolution association mapping of quantitative trait loci, a population based approach. *Genetics* 172:663-686.  
[http://www.stat.tamu.edu/~rfan/paper.html/2006/multi\\_allelic\\_qtl.pdf](http://www.stat.tamu.edu/~rfan/paper.html/2006/multi_allelic_qtl.pdf)
15. **Fan RZ** and Knapp M (2005) Sib-ship  $T^2$  association tests of complex diseases for tightly linked markers. *Human Genomics* 2:90-112.  
[http://www.stat.tamu.edu/~rfan/paper.html/2004-2005/case\\_control\\_sibs.pdf](http://www.stat.tamu.edu/~rfan/paper.html/2004-2005/case_control_sibs.pdf)  
[http://www.stat.tamu.edu/~rfan/paper.html/2004-2005/supplementary\\_simu.pdf](http://www.stat.tamu.edu/~rfan/paper.html/2004-2005/supplementary_simu.pdf)  
[http://www.stat.tamu.edu/~rfan/paper.html/2004-2005/Supplementary\\_non\\_ctr\\_para.pdf](http://www.stat.tamu.edu/~rfan/paper.html/2004-2005/Supplementary_non_ctr_para.pdf)
16. Jung JS, **Fan RZ**, and Jin L (2005) Combined linkage and association mapping of quantitative trait loci by multiple markers. *Genetics* 170:881-898.  
[http://stat.tamu.edu/~rfan/paper.html/2004-2005/multi\\_mrk\\_family.pdf](http://stat.tamu.edu/~rfan/paper.html/2004-2005/multi_mrk_family.pdf)
17. **Fan RZ**, Knapp M, Wjst M, Zhao CX, and Xiong MM (2005) High resolution  $T^2$  association tests of complex diseases based on family data. *Annals of Human Genetics* 69:187-208.  
[http://stat.tamu.edu/~rfan/paper.html/2004-2005/case\\_control\\_parent.pdf](http://stat.tamu.edu/~rfan/paper.html/2004-2005/case_control_parent.pdf)  
[http://stat.tamu.edu/~rfan/paper.html/2004-2005/supplementary\\_info.pdf](http://stat.tamu.edu/~rfan/paper.html/2004-2005/supplementary_info.pdf)

18. **Fan RZ**, Spinka C, Jin L, and Jung JS (2005) Pedigree linkage disequilibrium mapping of quantitative trait loci. *European Journal of Human Genetics* 13:216-231.  
[http://stat.tamu.edu/~rfan/paper.html/2004-2005/gen\\_pedigree.pdf](http://stat.tamu.edu/~rfan/paper.html/2004-2005/gen_pedigree.pdf)
19. **Fan RZ** and Jung SJ (2004) High resolution joint linkage disequilibrium and linkage mapping of quantitative trait loci based on sibship data. *Human Heredity* 56:166-187.  
[http://stat.tamu.edu/~rfan/paper.html/2004-2005/HH\\_sibship\\_associ\\_linkage.pdf](http://stat.tamu.edu/~rfan/paper.html/2004-2005/HH_sibship_associ_linkage.pdf)
20. **Fan RZ** and Knapp M (2003) Genome association studies of complex diseases by case-control designs. *American Journal of Human Genetics* 72:850-868.  
[http://stat.tamu.edu/~rfan/paper.html/2003/case\\_control.pdf](http://stat.tamu.edu/~rfan/paper.html/2003/case_control.pdf)
21. **Fan RZ** and Xiong MM (2003) Combined high resolution linkage and association mapping of quantitative trait loci. *European Journal of Human Genetics* 11:125-137.  
[http://stat.tamu.edu/~rfan/paper.html/2003/linkage\\_association.pdf](http://stat.tamu.edu/~rfan/paper.html/2003/linkage_association.pdf)
22. **Fan RZ** and Xiong MM (2003) Linkage and association studies of QTL for nuclear families by mixed models. *Biostatistics* 4:75-95.  
[http://stat.tamu.edu/~rfan/paper.html/2003/biostatistics\\_2003.pdf](http://stat.tamu.edu/~rfan/paper.html/2003/biostatistics_2003.pdf)
23. **Fan RZ** and Jung SJ (2003) Association studies of QTL for multi-allele markers by mixed models. *Human Heredity* 54:132-150.  
[http://stat.tamu.edu/~rfan/paper.html/2003/multi\\_marker\\_mix\\_model.pdf](http://stat.tamu.edu/~rfan/paper.html/2003/multi_marker_mix_model.pdf)
24. **Fan RZ** and Xiong MM (2002) High resolution mapping of quantitative trait loci by linkage disequilibrium analysis. *European Journal of Human Genetics* 10:607-615.  
[http://stat.tamu.edu/~rfan/paper.html/2002/EJHG\\_10\\_2002.pdf](http://stat.tamu.edu/~rfan/paper.html/2002/EJHG_10_2002.pdf)
25. Xiong MM, **Fan RZ**, and Jin L (2002) Linkage disequilibrium mapping of quantitative trait loci under truncation selection. *Human Heredity* 53:158-172.  
[http://stat.tamu.edu/~rfan/paper.html/2002/HH\\_QTL\\_trun\\_selection.pdf](http://stat.tamu.edu/~rfan/paper.html/2002/HH_QTL_trun_selection.pdf)
26. **Fan RZ**, Floros J, and Xiong MM (2002) Models and tests of linkage and association studies of QTL for multi-allele marker loci. *Human Heredity* 53:130-145.  
[http://stat.tamu.edu/~rfan/paper.html/2002/HH\\_quan\\_loci\\_reg.pdf](http://stat.tamu.edu/~rfan/paper.html/2002/HH_quan_loci_reg.pdf)
27. **Fan RZ**, Floros J, and Xiong MM (2001) Linkage transmission disequilibrium test of two unlinked disease loci; application to respiratory distress syndrome. *Advances and Applications in Statistics* 1:277-308. [http://stat.tamu.edu/~rfan/paper.html/2001/two\\_loc\\_tdt.pdf](http://stat.tamu.edu/~rfan/paper.html/2001/two_loc_tdt.pdf)
28. Floros J, **Fan RZ**, Diangelo S, Guo XX, Wert J, and Luo JM (2001) SP-B associations and interactions with SP-A in RDS in whites and blacks. *Pediatric International* 43:567-576.  
[http://stat.tamu.edu/~rfan/paper.html/2001/ped\\_int.pdf](http://stat.tamu.edu/~rfan/paper.html/2001/ped_int.pdf)
29. Floros J, **Fan RZ**, Matthews A, DiAngelo S, Luo JM, Nielsen H, Dunn M, Gewolb I, Koppe J, vanSonderen L, Farri-Kostopoulos L, Rămet M, Merrill J, and Robbins (2001) Family based transmission disequilibrium test (TDT) and case-control association studies reveal surfactant protein A (SP-A) susceptibility alleles for respiratory distress syndrome (RDS) and possible race

differences. *Clinical Genetics* **60**:178-187.

[http://stat.tamu.edu/~rfan/paper.html/2001/clinical\\_genetics.pdf](http://stat.tamu.edu/~rfan/paper.html/2001/clinical_genetics.pdf)

30. Floros Y and **Fan RZ** (2001) Surfactant protein (SP) B associations and interactions with SP-A in whites and black subjects with respiratory distress syndrome. *Pediatric International* 43:567-576. *Biology of the Neonate* **80 (Suppl 1)**:22-25.
31. **Fan RZ** and Lange K (2000) Asymptotic properties of the maximal subinterval of a Poisson process. *Stochastic Processes, Physics and Geometry: New Interplays. II: A Volume in Honor of Sergio Albeverio*; Conference Proceedings, Canadian Mathematical Society, Volume 29; edited by Gesztesy F, Holden H, Jost J, Paycha S, Röckner M, and Scarlatti S; pp 175-187.
32. **Fan RZ** and Lange K (1999) Diffusion process calculations for mutant genes in nonstationary populations. *Statistics in Molecular Biology and Genetics*, Institute of Mathematical Statistics, Lecture Notes-Monograph Series, Volume 33, Published by the Institute of Mathematical Statistics and the American Mathematical Society; Ed. Seillier-Moiseiwitsch F, pp 38-55.
33. **Fan RZ**, Lange K, and Pena E (1999) Applications of a formula for the variance function of a stochastic process. *Statistics & Probability Letters* **43-2**:123-130.
34. **Fan RZ** and Lange K (1998) Models for haplotype evolution in a nonstationary population. *Theoretical Population Biology* **53**:184-198.  
[http://stat.tamu.edu/~rfan/paper.html/1998/tpb\\_1998.pdf](http://stat.tamu.edu/~rfan/paper.html/1998/tpb_1998.pdf)
35. Lange K and **Fan RZ** (1997) Branching process models for mutant genes in nonstationary populations. *Theoretical Population Biology* **51**:118-133; Erratum, *Theoretical Population Biology* **52**:165. [http://stat.tamu.edu/~rfan/paper.html/1997/tpb\\_1997.pdf](http://stat.tamu.edu/~rfan/paper.html/1997/tpb_1997.pdf)
36. **Fan RZ** (1996) Potential theory of hyperfinite Dirichlet forms. *Potential Analysis*, Netherlands **5**:417-462.
37. Albeverio S, **Fan RZ**, Röckner M, and Stannat W (1995) A remark on coercive forms and associated semigroups. *Partial Differential Equations and Mathematical Physics (Series: Operator Theory: Advances and Applications, Vol. 78, Birkhäuser Verlag, Basel/Switzerland)*, Eds. Demuth M and Schulze B, pp 1-8.
38. Albeverio S and **Fan RZ** (1995) Representation of martingale additive functionals and absolute continuity of infinite dimensional symmetric diffusions. *Dirichlet Forms and Stochastic Processes*, Proceedings of the International Conference in Beijing, Eds. Ma ZM, Röckner M, and Yan J, pp 25-45.
39. **Fan RZ** (1995) Nonstandard construction of symmetric strong Markov processes associated with Dirichlet forms. *Stochastic Processes, Physics and Geometry II*, Proceeding of the International Conference in Locarno, Switzerland, Eds Albeverio S, Cattaneo U, and Merlini D, pp 247-277.
40. **Fan RZ** (1992) Some diffusion processes on the half-space and their associated Dirichlet forms (in Chinese). *Acta Mathematica Sinica* **35**:418-430.

41. **Fan RZ** (1992) Decomposition of a class of functionals and the predictable representation theorem on Banach spaces. *Acta Mathematicae Applicatae Sinica*, English Series **8**:153–167.
42. **Fan RZ** (1992) Beurling-Deny formulae on Banach spaces. *Acta Mathematica Scientia* **12**:79–84.
43. **Fan RZ** (1991) Decomposition of a class of functionals. *Acta Mathematica Sinica*, New Series **7**:224–240.
44. **Fan RZ** (1991) Closabilities of certain symmetric forms on Banach spaces (in Chinese). *Chinese Annals of Mathematics* **12A**:202–209.
45. **Fan RZ** (1990) Representation of martingale additive functionals on Banach spaces. *Acta Mathematicae Applicatae Sinica*, English Series **6**:74–80.
46. **Fan RZ** (1989) An extension of Dynkin formula and probabilistic solutions of some second-order partial differential equations (in Chinese). *Journal of Yunnan University, Natural Science Edition* **11**:10–14.
47. **Fan RZ** (1987) A class of stochastic differential equations with local time and the skew Brownian motion with two barriers (in Chinese). *Chinese Journal of Applied Probability and Statistics* **3**:130–136.