

Jan Hannig

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EDUCATION

Ph.D., Statistics, July, 2000
Michigan State University, East Lansing, Michigan
Advisor: Professor A. V. Skorokhod

Mgr. (M.S. equivalent), Mathematics, June, 1996
(Concentration in probability and random processes.)
Charles University, Prague, Czech Republic
Advisor: Professor J. Štěpán

PROFESSIONAL EXPERIENCE

- *Associate Professor*, Department of Statistics and Operations Research, University of North Carolina at Chapel Hill, 2008 – present
- *Associate Professor*, Department of Statistics, Colorado State University
2006 – 2009
- *Guest Researcher*, National Institute of Standards and Technology
2003 – 2008
- *Visiting Assistant Professor*, Department of Statistics, University of Chicago
Fall 2006
- *Assistant Professor*, Department of Statistics, Colorado State University
2000 – 2006
- *Honorary Fellow, Summer Internship in Probability*, University of Wisconsin - Madison, Summer 2001, Summer 2002
- *Graduate Teaching Assistant*, Michigan State University
1996 – 2000
- *Statistical Consultant*, Michigan State University
1999 – 2000
- *Graduate Teaching Assistant*, Charles University, Prague, Czech Republic
1995 – 1996
- *Computer Assistant*, Charles University, Prague, Czech Republic
1993 – 1996

RESEARCH PAPERS

1. D. Wandler and **J. Hannig**, Generalized Fiducial Confidence Intervals for Extremes, to appear in *Extremes* accepted in August 2011.
2. D. Wandler and **J. Hannig** (2011), Fiducial Inference on the Maximum Mean of a Multivariate Normal Distribution, *Journal of Multivariate Statistics*, **102**, pp. 87 – 104.
3. C. Park, T. C. M. Lee and **J. Hannig**, Multiscale Exploratory Analysis of Regression Quantiles using Quantile SiZer (2010), *Journal of Computational and Graphical Statistics*, **19**, pp. 497 – 513.
4. P. J. Brockwell and **J. Hannig**, CARMA(p, q) Generalized Random Processes (2010), *Journal of Statistical Planning and Inference*, special volume in honor of Manny Parzen, **140**, pp. 3613 – 3618.
5. S. S. Lee and **J. Hannig** (2010), Detecting jumps from levy jump diffusion processes, *Journal of Financial Economics*, **96**, pp. 271-290.
6. **J. Hannig** and T. C. M. Lee (2009), Generalized Fiducial Inference for Wavelet Regression, *Biometrika*, **96**, pp. 847 – 860.
7. C. Park, **J. Hannig** and K.-H. Kang (2009), Improved SiZer for Time Series, Special issue: Multiscale Methods and Statistics: A Productive Marriage, *Statistica Sinica*, **19**, pp. 1511 – 1530.
8. C. Park, A. Vaughan, **J. Hannig** and K.-H. Kang (2009), SiZer Analysis for Comparison of Two Time Series, *Journal of Statistical Planning and Inference*, **139**, pp. 3974 – 3988.
9. **J. Hannig** (2009), On Generalized Fiducial Inference, *Statistica Sinica*, **19**, pp. 491 – 544.
10. C. B. Storlie, T. C. M. Lee, **J. Hannig** and D. Nychka (2009), Tracking of multiple merging and splitting targets with application to convective systems, with discussion and rejoinder by the authors, *Statistica Sinica*, **19**, pp. 1 – 52.
11. L. E, **J. Hannig** and H. Iyer, Fiducial Intervals for Variance Components in an Unbalanced Two-component Normal Mixed Linear Model (2008), *Journal of American Statistical Association*, **103**, pp. 854 – 865.
12. E. K. P. Chong, D. Estep and **J. Hannig** (2008), Continuum Modeling of Large Networks, *International Journal of Numerical Modeling: Electronic Networks, Devices, and Fields*, **21**, pp. 169 – 186.

13. H. Li, P. R. Barbosa, E. K. P. Chong, **J. Hannig** and S. R. Kulkarni, Zero-Error Target Tracking with Limited Communication (2008), *IEEE Journal on Selected Areas in Communications, Special Issue on Control and Communications*, **26**, pp. 686 – 694.
14. **J. Hannig**, H. K. Iyer and C. M. Wang (2007), Fiducial approach to uncertainty assessment: accounting for error due to instrument resolution, *Metrologia*, **44**, pp. 476 – 483.
15. **J. Hannig** and J. S. Marron (2006) Advanced Distribution Theory for SiZer, *Journal of American Statistical Association*, **101**, pp. 484 – 499.
16. **J. Hannig**, H. K. Iyer and P. Patterson (2006), Fiducial Generalized Confidence Intervals, *Journal of American Statistical Association*, **101**, pp. 254 – 269.
17. **J. Hannig**, E. K. P. Chong and S. R. Kulkarni (2006), Relative Frequencies of Generalized Simulated Annealing, *Mathematics of Operation Research*, **31**, pp. 199 – 215.
18. **J. Hannig** and T. C. M. Lee (2006), Robust SiZer for Exploration of Regression Structures and Outlier Detection, *Journal of Computational and Graphical Statistics*, **15**, pp. 1 – 17.
19. **J. Hannig** and T. C. M. Lee (2006), Smoothing of the Poisson signal under L_2 and Kullback-Leibler Discrepancy, *Journal of Statistical Planning and Inference*, **136**, pp. 882 – 908.
20. **J. Hannig** (2006), Asymptotic Bounds for Coverage Probabilities for a Class of Confidence Intervals for the Ratio of Means in a Bivariate Normal Distribution, *Journal of Probability and Statistical Science*, **4**, pp. 41 – 49.
21. **J. Hannig**, Lidong E, Amany Abdel-Karim and H. K. Iyer (2006), Simultaneous Fiducial Generalized Confidence Intervals for Ratios of Means of Lognormal Distributions, special volume for Perspectives in Modern Statistical Inference III, *Austrian Journal of Statistics*, **35**, pp. 261 – 269.
22. F. Gao, **J. Hannig**, T.-Y. Lee and F. Torcaso (2004) Exact L^2 small balls of Gaussian processes, *Journal of Theoretical Probability*, **17**, pp. 503 – 520.
23. **J. Hannig** and T. C. M. Lee (2004), Kernel Smoothing of Periodograms under Kullback-Leibler Discrepancy, *Signal Processing*, **84**, pp. 1255 – 1266.
24. F. Gao, **J. Hannig** and F. Torcaso (2003), Comparison Theorems for Small Deviations of Random Series, *Electronic Journal of Probability*, **8**, paper no. 21, pp. 1 – 17.
25. F. Gao, **J. Hannig** and F. Torcaso (2003) Integrated Brownian motions and Exact L_2 -small balls, *Annals of Probability*, **31**, pp. 1320 – 1337.

26. F. Gao, **J. Hannig**, T.-Y. Lee and F. Torcaso (2003), Laplace transforms via Hadamard Factorization with applications to small Ball, *Electronic Journal of Probability*, **8**, paper no. 13, pp. 1 – 20.
27. **J. Hannig**, C. M. Wang and H. K. Iyer (2003), Uncertainty calculation for the ratio of dependent measurements, *Metrologia*, **40**, pp. 177 – 183.
28. **J. Hannig** (2003), On filtrations related to purely discontinuous martingales, *Séminaire de Probabilités XXXVI*, Lecture Notes in Mathematics **1801**, pp. 360 – 365.
29. **J. Hannig**, J.S. Marron and R.H. Riedi (2001), Zooming statistics: Inference across scales, *Journal of Korean Statistical Society*, **30**, pp. 327 – 345.

Refereed Proceedings

1. Y. Zhang, E. K. P. Chong, **J. Hannig** and D. Estep (2010), On Continuum Limits of Markov Chains and Network Modeling, Proceedings of the IEEE Conference on Decision and Control, to appear.
2. P. R. Barbosa, H. Li, E. K. P. Chong, **J. Hannig**, S. R. Kulkarni (2006), Zero-Error Target Tracking Through Limited Querying of One-Bit Sensors, Proceedings of the Forty-Fourth Annual Allerton Conference on Communication, Control, and Computing, Monticello, Illinois, September 27–29, 2006, pp. 1424 – 1431.
3. **J. Hannig**, E. K. P. Chong and S. R. Kulkarni (2005), Relative frequencies of non-homogeneous Markov chains in simulated annealing and related algorithms, in Proceedings of the Joint 44th IEEE Conference on Decision and Control and European Control Conference, Seville, Spain, December 12–15, 2005 (Invited paper), pp. 6626 – 6631.
4. **J. Hannig**, J. S. Marron, G. Samorodniztky and F. D. Smith (2003), Log-normal durations can give long range dependence, *Mathematical Statistics and Applications: Festschrift for Constance van Eeden*, IMS Lecture Notes — Monograph Series **42**, pp. 333 – 344.

Other

1. **J. Hannig** H. Iyer, T. C. M. Lee (2010) Fiducial Inference and Generalizations, Lexicon (Encyclopedia) of Statistical Sciences, Springer.
2. **J. Hannig** (2005) On Multidimensional Fiducial Generalized Confidence Intervals, CSU Technical Report 2005-1, Department of Statistics, Colorado State University.
3. **J. Hannig** (2000) *On purely discontinuous martingales*, Ph.D. dissertation, Michigan State University, East Lansing, MI, USA.
4. **J. Hannig** (1996) *On conditional distributions as limits of martingales*, Mgr. dissertation, Charles University, Prague, Czech Republic (in Czech).

Currently Reviewed:

-
1. D. Wandler and **J. Hannig**, A Fiducial Approach to Multiple Comparisons, submitted to *Journal of Statistical Planning and Inference* in June 2010.
 2. C.M. Wang, **J. Hannig**, H. K. Iyer, Fiducial Prediction Intervals, under revision for *Technometrics*.
 3. **J. Hannig**, On Asymptotic Properties of Generalized Fiducial Inference for Discretized Data, resubmitted to *Bernoulli* in October 2010.
 4. L. E, **J. Hannig** and H. K. Iyer, Fiducial Generalized Confidence Interval for Median Lethal Dose (LD50), under revision.
 5. C. B. Storlie, **J. Hannig** and T. C. M. Lee, The Asymptotic Properties of a Multiple Target Tracking Model, submitted to *Electronic Journal of Statistics* in July 2010.
 6. N. Burch, E. K. P. Chong, D. Estep and **J. Hannig**, Continuum Modeling of Large Wireless Networks Analysis of Routing Strategies and Interference, submitted to *Journal of Applied Mathematics and Computing* in April 2010.

GRANTS AND AWARDS

10/2010 – 9/2013 *ATD: Stochastic algorithms for countering chemical and biological threats*, National Science Foundation DMS-1016441, PI: **J. Hannig**, Amarjit Budhiraja, M. Ross Leadbetter, (\$896,249).

9/2010 – 8/2013 *Collaborative Research: Generalized Fiducial Inference – An Emerging View*, National Science Foundation DMS-1007543, PI: **J. Hannig**, in collaborations with T. C. M. Lee at University of California at Davis DMS-1007520 and H. Iyer at the Colorado State University DMS-1007543 (total of all three projects \$300,000).

8/2007 – 7/2010 *Generalized Fiducial Inference for Modern Statistical Problems*, National Science Foundation DMS-0707037, PI: **J. Hannig**, co-PIs T. C. M. Lee, H. Iyer (\$243,760).

5/2007 – 4/2010 *Partial Differential Equation Models for Large Networks*, National Science Foundation ECCS-0700559, PI: E. K. P. Chong, co-PIs **J. Hannig**, D. Estep (\$276,833).

6/2005 – 5/2008 *Problems related to Gaussian Processes*, National Science Foundation DMS-0504737, sole PI (\$96,000)

2003 IBM Faculty Award (\$7,500)

10/2003 US Junior Oberwolfach Fellow (\$500)— NSF travel award to attend Mini-Workshop: Small Deviation Problems for Stochastic Processes and Related Topics

8/2002 – 5/2003 Travel grant for participants of Summer Internship in Probability (\$2,000)

8/2001 – 5/2002 Travel grant for participants of Summer Internship in Probability (\$2,500)

PRESENTATIONS

International and National Meetings

1. *Comparison Between Fiducial and Objective Bayesian Inference*, Spatial program transition workshop, SAMSI, October 2010 (poster)
2. *On Fiducial Inference in Linear Mixed Models*, First Joint Biostatistics Symposium, Beijing, China, July 2010 (invited).
3. *Comparison Between Fiducial and Objective Bayesian Inference*, International Conference on Statistics and Society, Beijing, China, July 2010 (invited)
4. *Generalized Fiducial Inference for Wavelet Regression*, ISBIS, Portoroz, Slovenia, July 2009 (invited).
5. *On Fiducial Inference in Linear Mixed Models*, Joint Research Conference, NIST Gaithersburg, MD, May 2010 (invited).
6. *On Generalized Fiducial Inference*, Workshop on Objective Bayesian for Spatial and Temporal Models, San Antonio, TX, March 2010
7. *Continuum Modeling of Large Networks*, Workshop on Stochastic Analysis, Charles University, Prague, Czech Republic, January 2010.
8. *Sequential Monte Carlo Application in Generalized Fiducial Inference*, SMC Transition Workshop, SAMSI, Raleigh NC, November 2009.
9. *Generalized Fiducial Inference for Wavelet Regression*, Joint Statistical Meetings, Washington DC, August 2009 (topic contributed).
10. *Generalized Fiducial Inference for Sparse Linear Systems with Application to Wavelet Regression*, IMS Asia-Pacific Rim Meeting, Seoul, South Korea, June 2009 (invited).
11. *On Problems Arising From Fiducial Inference*, 2009 Barrett lectures, The University of Tennessee, Knoxville, TN, April 2009 (contributed).
12. *Detecting Jumps from Lévy Jump Diffusion Processes*, Workshop on Stochastic Analysis V, Charles University, Prague, Czech Republic, January 2009.

13. *Generalized Fiducial Inference for Sparse Linear Systems with Application to Wavelet Regression*, Winter Workshop on Mathematical Statistics, Bratislava, Slovakia, December 2008 (invited).
14. *On Generalized Fiducial Inference*, Opening Workshop For Program on Sequential Monte Carlo, SAMSI, Research Triangle Park, NC, September 2008 (poster).
15. *On Generalized and Fiducial Inference*, Joint Statistical Meetings, Denver, CO, August 2008 (invited).
16. *On Generalized Fiducial Inference*, MCMSki, Bormio, Italy, January 2008 (poster).
17. *Continuum Modeling of Large Networks*, Workshop on Stochastic Analysis IV, Charles University, Prague, Czech Republic, January 2008.
18. *On Generalized Fiducial Inference*, Workshop on Uncertainty of Measurements, National Institute of Standards and Technology, Gaithersburg, MA, February 2007.
19. *Relative Frequencies of Generalized Simulate Annealing*, Markov Processes and Related Topics, Madison, WI, July 2006 (contributed).
20. *Continuum Models for Large Stochastic Networks*, Conference on Stochastic Networks, Urbana-Champaign, IL, June 2006 (poster).
21. *Extreme Value Theory for SiZer*, Graybill Conference V, Fort Collins, CO, June 2006 (invited).
22. *Small Deviations*, Front Range Probability Day, Boulder, CO, May 2006, (invited).
23. Northeast Probability Seminar, New York City, NY, November 2005, (informal talk on current research).
24. *Extreme Value Theory for SiZer*, Small Deviations and Related Problems, St. Petersburg, Russia, September 2005.
25. *On Fiducial Generalized Confidence Intervals*, Joint Statistical Meetings, Minneapolis, MN, August 2005, (contributed).
26. *On Fiducial Generalized Confidence Intervals*, Perspectives in Modern Statistical Inference III, Mikulov, Czech Republic, July 2005, (contributed).
27. *Advanced Distribution Theory for SiZer*, The Fourth International Conference on High Dimensional Probability, Santa Fe, NM, June 2005.
28. *Stochastic Processes and Information* Information Science and Technology Colloquium, Colorado State University, Fort Collins, CO, April 2005 (invited).
29. *Advanced Distribution Theory for SiZer*, Seminar on Stochastic Processes, Ithaca, NY, March 2005, (contributed).

30. Northeast Probability Seminar, New York City, NY, November 2003, (informal talk on current research).
31. *Small Deviations*, Workshop on Stochastic Analysis and Applications, Charles University, Prague, Czech Republic, January 2005, (invited).
32. Northeast Probability Seminar, New York City, NY, November 2004, (informal talk on current research).
33. *Advanced Distribution Theory for SiZer*, Workshop on Congestion Control and Heavy Traffic Modeling, SAMSI, Research Triangle Park, NC, June 2004, (invited)
34. *Small Deviations*, Fifth Biennial International Conference on Statistics, Probability and Related Areas, IISA, Athens, GA, May 2004, (invited).
35. *Five minute madness talk on current research*, Workshop on Congestion Control and Heavy Traffic Modeling, SAMSI, Research Triangle Park, NC, October 2003.
36. *Laplace transforms of L_2 -ball, Comparison Theorems and Integrated Brownian motions*, Mini-Workshop: Small Deviation Problems for Stochastic Processes and Related Topics, Mathematical Institute Oberwolfach, Germany, October 2003, (invited).
37. Seminar on Stochastic Processes, Seattle, WA, March 2003, (informal talk on current research).
38. *On Filtrations Related to Purely Discontinuous Martingales*, 24th European Meeting Of Statisticians, Prague, Czech Republic, August 2002, (contributed).
39. *Kullback - Leibler Discrepancy based bandwidth choice for Non-Gaussian Errors*, Perspectives in Modern Statistical Inference II, Brno, Czech Republic, August 2002, (contributed).
40. Seminar on Stochastic Processes, Princeton, NJ, March 2002, (informal talk on current research).
41. *Kullback - Leibler Discrepancy based bandwidth choice for Non-Gaussian Errors*, Joint Statistical Meetings, Atlanta, GA, August 2001, (contributed).
42. Seminar on Stochastic Processes, Gainesville, FL, March 2001, (informal talk on current research).

Colloquia & Seminars

1. *On Generalized Fiducial Inference*, Stochastic seminar, Department of Mathematics, University of Utah, November 2010.
2. *Continuum modeling of large networks*, Probability seminar, Department of Statistics and Operations Research, University of North Carolina at Chapel Hill, February 2010.

3. *Continuum modeling of large networks*, Probability seminar, Department of Statistics, Columbia University, New York, NY, December 2009.
4. *On Generalized Fiducial Inference*, Department of Statistics, Chinese University of Hong Kong, October 2009.
5. *On Generalized Fiducial Inference*, Department of Statistical Science, Duke University, September 2009.
6. *On Generalized Fiducial Inference*, Institute of Statistical Science, Academia Sinica, Taipei, Taiwan, July 2009.
7. *On Generalized Fiducial Inference*, Institute of Measurement Science, Slovak Academy of Sciences, Slovakia, December 2008.
8. *On Generalized Fiducial Inference*, Department of Statistics, Seoul National University, S. Korea, June 2008.
9. *Statistical Model for Tracking with Applications*, Department of Statistic, Hankuk University of Foreign Studies, S. Korea, June 2008.
10. *On Generalized Fiducial Inference*, Colloquium, Department of Mathematics and Statistics, Utah State University, October 2007.
11. *On Generalized Fiducial Inference*, Department of Statistics & Operation Research, University of North Carolina - Chapel Hill, April 2007.
12. *Statistical Model for Tracking with Applications*, Colloquium, Department of Mathematics, University of Idaho, April 2007.
13. *Statistical Model for Tracking with Applications*, Probability Seminar, Department of Mathematics, University of Wisconsin-Madison, December 2006.
14. *On Generalized Fiducial Inference*, Department of Statistics Colloquium, Department of statistics & Probability, Michigan State University, December 2006.
15. *Extreme value theory for SiZer*, Stochastic Processes Seminar, Department of Applied Mathematics and Statistics, University of Copenhagen, Denmark, November 2006.
16. *Statistical Model for Tracking with Applications*, Jaroslav Hájek Center for Theoretical and Applied Statistics and Department of Probability & Mathematical Statistics, Charles University, Prague, Czech Republic, November 2006.
17. *On Generalized Fiducial Inference*, Statistics Seminar, Institute of Statistics, Université catholique de Louvain, Louvain-la-Neuve, Belgium, November 2006.
18. *Statistical Model for Tracking with Applications*, Seminar, Department of Statistics, Northwestern University, October 2006.

19. *On Fiducial Inference*, Colloquium, Department of Statistics, University of Toronto, Canada, October 2006.
20. *Statistical Model for Tracking with Applications*, Colloquium, Department of Statistics, University of Georgia, October 2006.
21. *On Fiducial Inference*, Colloquia Series, Department of Statistics, Harvard University, October 2006.
22. *Statistical Model for Tracking with Applications*, Seminar Series, Department of Statistics, The University of Chicago, September 2006.
23. *On Fiducial Inference*, Jaroslav Hájek Center for Theoretical and Applied Statistics and Department of Probability & Mathematical Statistics, Charles University, Prague, Czech Republic, May 2006.
24. *On Fiducial Inference*, SOAR Seminar, Department of Statistics, Colorado State University, April 2006.
25. *Extreme value theory for SiZer*, Probability & Statistics Seminar, Department of Mathematics, University of Utah, October 2005.
26. *Small Deviations*, Applied Mathematics Seminar, Department of Mathematics, Colorado State University, September 2004.
27. *Advanced Distribution Theory for SiZer*, Probability Seminar, Department of Mathematical Sciences, University of Delaware, August 2004.
28. *Relative Frequencies of Generalized Simulated Annealing*, Probability Seminar, Department of Statistics & Probability, Michigan State University, April 2004.
29. *Small Deviations, Comparison Theorems, and Laplace Transforms for the L_2 norm of a stochastic process*, Departmental Colloquium, Department of Statistics & Probability, Michigan State University, April 2004.
30. *Small Deviations, Comparison Theorems, and Laplace Transforms for the L_2 norm of a stochastic process*, Departmental Seminar, Department of Statistics, Colorado State University, February 2004.
31. *Integrated Brownian motions, Laplace transforms of L_2 -ball and Exact L_2 -small balls*, Probability & Harmonic Analysis Seminar, Department of Mathematics, University of Utah, August 2003.
32. *Integrated Brownian motions, Laplace transforms of L_2 -ball and Exact L_2 -small balls*, Probability & Statistics Seminar, Department of Applied Mathematics, University of Colorado - Boulder, March 2003.
33. *Eigenvalues of m -times integrated Brownian motion and Exact L_2 -small balls*, Summer internship in Probability, Department of Mathematics, University of Wisconsin - Madison, Summer 2002.

34. *Eigenvalues of m -times integrated Brownian motion and Exact L_2 -small balls*, Probability Seminar, Department of Statistics, Columbia University, Spring 2002.
35. *Eigenvalues of m -times integrated Brownian motion and Exact L_2 -small balls*, Probability Seminar, Department of Mathematics, Cornell University, Fall 2001.
36. *Eigenvalues of m -times integrated Brownian motion and Exact L_2 -small balls*, Statistics Seminar, Department of Statistics, CSU, Fall 2001.
37. *On Filtrations Related to Purely Discontinuous Martingales*, Summer internship in Probability, Center for Mathematical Sciences, University of Wisconsin - Madison, Summer 2001.
38. *Are Filtrations Really Information?*, Statistics Seminar, Department of Statistics, CSU, Spring 2001.
39. *On Filtrations Related to Purely Discontinuous Martingales*, Departmental Colloquium, Department of Statistics, Michigan State University, Spring 2000.
40. *On Filtrations Related to Purely Discontinuous Martingales*, Statistics Seminar, Department of Statistics, Purdue University, Spring 2000.
41. *On Filtrations Related to Purely Discontinuous Martingales*, Statistics Seminar, Department of Statistics, Colorado State University, Spring 2000.
42. *On Filtrations Related to Purely Discontinuous Martingales*, Statistics Seminar, Department of Statistics, University of Pennsylvania, Spring 2000.
43. *On Filtrations Related to Purely Discontinuous Martingales*, Statistics Seminar, Department of Statistics, University of North Carolina - Chapel Hill, Spring 2000.
44. *On Filtrations Related to Purely Discontinuous Martingales*, Statistics Seminar, Department of Statistics, Florida State University, Spring 2000.

STUDENTS

Ph.D. Students

1. Damian Wandler, Ph.D. 2010
Dissertation Title: *A Fiducial Approach to Extremes and Multiple Comparisons*
2. Derek Sonderegger, Ph.D. 2010 (co-advised with H. Wang)
Dissertation Title: *Nonparametric function smoothing: Fiducial inference of free knot splines and ecological applications*
3. Lidong E, Ph.D. 2008 (co-advised with H. Iyer)
Dissertation Title: *On Applications of Generalized Fiducial Inference*

4. Paul Patterson, Ph.D. 2006 (co-advised with H. Iyer)
Dissertation Title: *Generalized Confidence Intervals for Mixed Linear Model Problems.*
5. Curt Storlie, Ph.D. 2005 (co-advised with T.C.M. Lee)
Dissertation Title: *Tracking of Multiple Merging and Splitting Targets with Application to Convective Systems.*
6. Amany Abdel-Karim, Ph.D. 2005 (co-advised with H. Iyer)
Dissertation Title: *Applications of Generalized Inference.*

M.S. Students

1. Douch Makara, M.S. 2010, Royal University of Phnom Penh, Cambodia
Project Title: *Simulation Study Of The Property Of Fiducial Distribution For Multinomial Data*
2. Yuriy Glagolskiy, M.S. 2006, (completed via distance)
Project Title: *Construction of Fiducial Confidence Intervals for the Mixture of Cauchy and Normal Distributions*
3. Sean Sebastian, M.S. 2003
Project Title: *Estimating people's willingness to pay to preserve a local historical landmark*
4. Jeremy Wilhelm, M.S. 2002
Project Title: *A Simulation Study on Competing Distributions for the Maxima of Stationary Normal Processes*

Current Students

1. Jessi J. Cisewski, Ph.D. candidate
2. P. Borisov, Ph.D. candidate (co-advised with J.S. Marron)

ASSOCIATE EDITOR

Electronic Journal of Statistics, 2008 – present
Statistica Sinica, guest editor for two papers 2007 – 2008
Journal of Probability and Statistical Science, 2002 – 2008

REVIEWING

Books

Statistics textbooks by Springer (four times) and Houghton Mifflin (once)

Journal Papers

American Statistician (once), Annals of the Institute of Statistical Mathematics (once), Annals of Probability (once), Annals of Statistics (twice), Biometrics (once), Biometrika (twice), Communications in Statistics (twice), Communication Networks (once), Computational Statistics and Data Analysis (three times), Electronic Journal of Statistics (once), Journal of American Statistical Association, Journal of Applied Statistics (once), Journal of Banking and Finance (once), Journal of Computational and Graphical Statistics (once), Journal of Computer Networks (once), Journal of Econometrics (twice), Journal of Multivariate Analysis (three times), Journal of Nonparametric Statistics (once), Journal of Statistical Planning and Inference (seven times), Journal of Theoretical Probability (once), Metrika (once), Probability Theory and Related Fields (once), Proceedings of the American Mathematical Society (twice), Sankhya (once), Scandinavian Journal of Statistics (once), Science in China, Series A: Mathematics (once), Statistics and Probability Letters (three times), Statistical Papers (once), Statistics (once), Stochastic Processes and their Applications (once), Tatra Mountains Mathematical Publications (once), Technometrics (once)

Proceedings

American Control Conference 2007, 2008, 2009, 2010 Festschrift for Thomas Kurtz, IEEE Conference on Decision and Control 2005, 2008, IEEE Conference on Management System 2009, Perspectives in Modern Statistical Inference III

Reviews

Mathematical Reviews (four times), Zentralblatt MATH (twice)

CONFERENCES ORGANIZATION

ISBIS-2010, Session on Object Data Analysis, Portoroz, Slovenia, July 2010.

2003 *WNAR/IMS Western Regional Meeting*, Golden, CO, June 2003—IMS local chair.

Frontier Probability Days 2007, Colorado Springs, CO, May 2007

COURSES TAUGHT

Ph.D. level: Stochastic processes – ST 721 (3 times), Probability – ST 720 (2 times), Advanced Topics in Inference – ST 740 (once), Mathematical Statistics – STOR 654 (F08, F09), Bayesian Statistics – STOR 757 (S10)

M.S. level: Probability – ST520 (7 times), Mathematical Statistics – ST530 (7 times)

Undergraduate level: Probability – STOR435 (S09), Introduction to Business Statistics – STT315 (6 times), STOR155 (F09), Statistical Methods – STT200 (once), Statistics and Probability for Engineers – ST309 (once)

ADMINISTRATIVE SERVICE

Committee Membership

STOR Department Chair Search Committee, The University of North Carolina, 2008

Executive Committee, Colorado State University, 2007 – 2008

Tenure and Promotion Committee, Colorado State University, 2006 – 2008

Graduate Committee, Colorado State University, 2000 – 2002; 2003 – 2007

Graduate Screening Committee, Colorado State University
member: 2001 – 2002; 2003 – 2006; chair: 2007

Faculty Position Search Committees, Colorado State University
2004 – 2005; 2005 – 2006; 2007 – 2008

Statistics Department Chair Search Committee, Colorado State University, 2005

ISTeC Research Advisory Committee, Colorado State University, 2004 – 2005

Elected Student Representative, Michigan State University, 1997 – 2000

Distance Education

Distance Program Director, Colorado State University
2003 – 2006.

- Run the day to day operation of the program, e.g., promoting the program to potential students, advising, overseeing instructors and technical production.
- Under my watch the statistics distance program more than doubled: Enrollment increased from 114 in 2001-2002 AY to 245 in 2004-2005 AY; The total credit hours went from 325 in 2001-2002 AY to 673 in 2004-2005 AY; The revenue to the department increased from \$47,788.62 in 2001-2002 FY to \$215,144.52 in 2004-2005 FY.

INTERNATIONAL DEVELOPMENT PROJECT

- Royal University of Phnom Penh, Cambodia, May 2008, 2009, June 2010
Taught a mathematical statistics course as a part of MS in mathematics organized by CIMPA Laos-Cambodia project.

MEMBERSHIP

American Statistical Association, 2009 - present
International Statistical Institute, 2006 - present
Institute of Mathematical Statistics, 2000 - present
Bernoulli Society, 2002 - present
Union of Czech Mathematicians & Physicists, 2005 - present

HONORS & AWARDS

- Pass with distinction on both Probability and Statistics prelims. (Michigan State University, 1997)
- Graduation with high honors (Charles University, Prague, 1996)
- Recipient of Scholarship for Academic Achievements (yearly award for best students in the College of Mathematics and Physics, Charles University, Prague, 4 times 1992–1996)