

Doctoral Degrees Conferred 2005–2006

Supplementary List

The following list supplements the list of thesis titles published in the February 2007 *Notices*, pages 277–97.

CALIFORNIA

University of California, Davis (4)

STATISTICS

Kerr, Joshua, Signal extraction for seismic array data via partially linear least-squares.

Wu, Ping-Shi, Time-dynamic density estimation and functional discrimination for high-dimensional data.

Zhang, Ying, Time-varying functional regression models for time-to-event.

University of California, Irvine (4)

MATHEMATICS

Akhmedov, Anar, Smooth Structures on 4-manifolds with small Euler characteristics.

Beyaz, Ahmet, A new construction of spin smooth 6-manifolds.

Haessig, Douglas, On the symmetric power of the P-adic D-airy family.

Zhao, Rui, Computational studies of morphogen gradients.

University of California, Riverside (2)

STATISTICS

Kwon, Soonil, Spatial discrete choice models for multinomial responses.

Zainal, Mohammad, Skew-normal distribution with a cauchy skewing function.

IOWA

Iowa State University (4)

MATHEMATICS

Alm, Jeremy, Weak representation theory in the calculus of relations.

Kim, Joohyung, Classification of small class association schemes coming from certain combinatorial objects.

Meyer, Kristen, A new message authentication code based on the non-associativity of quasigroups.

Rajaram, Rajeev, Exact boundary controllability results for sandwich beam systems.

KENTUCKY

University of Kentucky (4)

STATISTICS

Bush, Heather, Khatri-Rao products and conditions for the uniqueness of PARAFAC solutions for $1 \times J \times K$ arrays.

Chen, Min, Some contributions to the empirical likelihood method.

Tarima, Sergey, Consistency and generalization error bound of feed-forward neural network trained with smoothing regularizer.

Liu, Chengan, Some sequential and two-stage procedures for selecting the best of treatments in clinical trials.

MARYLAND

University of Maryland, Baltimore County (6)

MATHEMATICS AND STATISTICS

Bebu, Ionut, Some statistical and probabilistic problems in Markov chains.

Gavrea, Bogdan, Simulation of rigid body system with joints, contact and friction.

Li, Cao, The assessment of multivariate bioequivalence.

Liu, Guohui, Sequential designs for logistic phase-I clinical trials.

Wu, Yanping, Topics in univariate bioequivalence testing.

Zhang, Lanju, Response-adaptive randomization in clinical trials with continuous and survival time outcomes.

MASSACHUSETTS

Tufts University (1)

MATHEMATICS

Finn, Lucas, A variational approach to vortex core identification.

MICHIGAN

Western Michigan University (2)

STATISTICS

Ratanaruamkarn, Sauwanit, New estimates of a circular median.

Scherzer, Rebecca, Testing procedures for group sequential clinical trials with multiple survival endpoints.

NEW JERSEY

Princeton University (8)

PROGRAM IN APPLIED COMPUTATIONAL MATHEMATICS

Anthoine, Sandrine, Different wavelet-based approaches for the separation of noisy and blurred mixtures of components. Application to Astrophysical data.

Frierson, Dargan, Studies of the moist general circulation with a simplified moist GCM.

Gerber, Edwin, A dynamical and statistical understanding of the North Atlantic oscillation and annual modes.

Golden, Cliona, Spatio-temporal methods in the analysis of fMRI data in neuroscience.

Leslie, Nandi, Spatial stochastic models for landscape degrading and deforestation in Bolivia and Brazil.

Rustamov, Raif, On Heegard Floer homology of three-manifolds.

Sharp, Richard, Computational methods inspired by chemistry: multiscale modeling and mechanics of control.

Zou, Jing, Sublinear algorithms for the Fourier transform of signals with very few Fourier modes: theory, implementations, and applications.

NEW YORK

Cornell University (2)

BIOMETRICS UNIT

Denogean, Lisa Renee, Improved approximations of the density functions of estimators in population genetics.

Long, Yu, Bayesian Analysis of Levy processes with financial applications.

OHIO

Case Western Reserve University (6)

EPIDEMIOLOGY AND BIOSTATISTICS

Campbell, Robert, Burden of disease amongst Carolina lupis patients: economic, humanistic, and clinical factors.

Davidson, Carrie, Efficiency, quality and costs in Ohio nursing homes.

Diggs, Jessica, The impact of medicaid outreach initiatives on the health and healthcare access of children in Ohio.

Mascha, Edward, Assessing individual treatment effect heterogeneity for binary outcomes.

Schumacher, Fredrick Ray, Relation between selenoprotein gene, selenium, and prostate cancer.

Wang, Tao, Extensions of Haseman-Elstron regression for linkage analysis.

SOUTH CAROLINA

University of South Carolina (3)

STATISTICS

Han, Jun, Parametric latent class joint model for longitudinal markers and recurrent events.

Parody, Robert, Simultaneous inference on the improvement in response surfaces.

Vera, Francisco, General convex stochastic orderings and related martingale-type structures.

VIRGINIA

Virgina Tech (8)

STATISTICS

Chen, Younan, Bayesian hierarchical modeling on dual response surfaces.

Duan, Yuyan, A modified Bayesian power prior approach with applications in water quality evaluation.

Eisenbies, Penelop, Bayesian hierarchical methods and use of ecological thresholds and changepoints for habitat selection models.

Jensen, Willis, Profile monitoring for mixed model data.

Modarres-Mousavi, Shabnam, Monitoring Markov dependent binary observations with a log-likelihood ratio base CUSUM control chart.

Sego, Landon, Applications of control charts in medicine and epidemiology.

Yan, Mingjin, Methods of determining the number of clusters in a data set and a new clustering criterion.

Zhong, Xin, Efficient sampling plans for control charts when monitoring an autocorrelated process.

WISCONSIN

University of Wisconsin, Madison (9)

STATISTICS

Lu, Yuefeng, Contributions to functional data analysis with biological applications.

Monuz, Alendro, On approximate p-values for time series outlier detection.

Peng, Limin, Contributions to semi-completing risks data.

Song, Qinghua, Contributions to regression and classification tree methods.

Wang, Lin, Imputation methods for non-monotone non-ignorable missing data in longitudinal studies.

Xie, Xianhong, Smoothing in magnetic resource image analysis and a hybrid loss for support vector machine.

Yang, Hyuna, Model-based clustering of genomic observations: generalizing the instability selection network model.

Yan, Ping, Bayesian cluster modeling for space-time disease counts.

Yue, Wei, Multi-resolution tree-structured spatial models.

University of Wisconsin, Milwaukee

(3)

MATHEMATICAL SCIENCES

Liu, Zhiyuan, Vortices in deformation background flow-A sensitivity source of the atmosphere.