

**Stephen Stanhope**  
University of Wisconsin, Madison

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**University Address**

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**Education**

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University of Wisconsin – Madison (Expected May 2008)  
Doctor of Philosophy in Statistics (with concentration in Biostatistics)

The University of Michigan – Ann Arbor (2000)  
Master of Science in Applied Economics

The University of Michigan – Ann Arbor (1996)  
Bachelor of Science in Computer Science and Applied Mathematics (Operations Research)

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**Dissertation**

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Title: Detecting miRNA-based gene silencing from microarray data studies: motivation, methods and results  
Committee: Michael A. Newton (chair), Paul Ahlquist, Cecile Ane, Sunduz Keles

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**Research Interests**

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Biostatistics  
Mathematical Modeling  
Applied Probability  
High performance statistical computing  
Bioinformatics

Genetic Epidemiology  
Cancer Biology  
Virology  
Transcriptional Networks  
RNA Interference

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**Fellowships and Awards**

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Computation and Informatics in Biology and Medicine Fellow, 2007-08.  
National Eye Institute Training Grant, 2005-06.  
National Cancer Institute Training Grant, 2002-05.  
Panhellenic Association Excellence in Teaching Award, 2000.  
Institute for Social Research Survey Research Center Fellowship, 1999-2000.  
Michigan Competitive Scholarship, 1992-1995.

## Selected Publications

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Stanhope, S., Smith, S. and C. Ane (2006). "Estimating Count Data Models with Phylogenetic Random Effects." In preparation.

Sengupta, S., den Boon, J., Chen, I-H., Newton, M., Stanhope, S., Cheng, Y-J., Chen, C-J., Hildesheim, A., Sugden, B. and P. Ahlquist (2006). "MicroRNA 29c Downregulates mRNAs encoding Extra-Cellular Proteins in Nasopharyngeal Carcinomas." Submitted.

Megid, A., Ensenberger, M., Halberg, R., Stanhope, S., Kent-First M., Prolla T. and J. Bacher (2006). "A Novel Method for Biodosimetry." *Radiation and Environmental Biophysics*, Vol. 46, No. 2, pp. 147-154.

Thliveris, A., R. Halberg, L. Clipson, W. Dove, R. Sullivan, M. Washington, S. Stanhope and M. Newton (2005). "Polyclonality of familial murine adenomas: Analyses of mouse chimeras with low tumor multiplicity suggest short-range interactions." *Proc. National Academy of Sciences*, Vol. 102, pp. 6960-6965.

Hofferth, S., Stanhope, S., and K. Harris (2005). "Remaining off welfare in the 1990s: the influence of public policy and economic conditions." *Social Science Research*, Vol. 34, No. 2, pp. 426-453.

Stanhope, S. (2004). "Case Studies in Multivariate-to-Anything Transforms for Partially Specified Random Vector Generation," *Insurance: Mathematics and Economics*, Vol. 1, No. 1, pp. 68-79.

Stanhope, S. (2004). "Evolution Strategies for Multivariate-to-Anything Partially Specified Random Vector Generation," *2004 Congress on Evolutionary Computing*.

Hofferth, S., Stanhope, S., and K. Harris. (2002). "Exiting welfare in the 1990s: Did public policy influence recipients behavior?" *Population Research and Policy Review*, Vol. 21, No. 5, pp. 433-472.

Wilde, P., Hofferth, S., Stanhope, S., Noonan, M., and N. Collins (2000). "Pre-1997 Trends in Welfare and Food Assistance in a National Sample of Families," *American Journal of Agricultural Economics*, Vol. 82, No. 3, pp. 642-648.

Stanhope, S. and J. Daida (1999). "(1+1) Genetic Algorithm Fitness Dynamics in a Changing Environment," *1999 Congress on Evolutionary Computation*.

Stanhope, S., Keydel, E., Rajlich, V., Williams, W. and R. Sieron. 1999. "Modeling Complex Target RCS with the Beta Distribution," *SPIE Aerosense 1999: Aerospace/Defense Sensing and Controls*.

Stanhope, S. and J. Daida (1998). "Optimal Mutation and Crossover Rates for a Genetic Algorithm Operating in a Dynamic Environment," *Evolutionary Programming VII: Proceedings of the Seventh Annual Conference on Evolutionary Programming*.

Keydel, E., Stanhope, S., Williams, W., Rajlich, V. and R. Sieron (1997). "Modeling Image and Feature Uncertainties in Model-Based SAR Prediction," *Sixth Automatic Target Recognizer Systems and Technology Conference*.

## **Research Experience**

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Consultant, Promega Corporation. Aug. 2006 – Present.

Consultant, McArdle Laboratory for Cancer Research, UW – Madison. June 2002 – Present.

Research Assistant, Institute for Social Research, UM – Ann Arbor. Feb. 1999 – Aug. 2000.

Research Scientist – ERIM International, Ann Arbor, MI. May 1996 – Feb. 1999.

Research Assistant, Space Physics Research Laboratory, UM – Ann Arbor. Aug. 1995 – Aug. 2000.

## **Teaching Experience**

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Intro. to Biostatistics for Pharmacists, Spring 2007, UW – Madison STAT 441.

Mathematical Statistics, Spring 2002, Fall 2006, UW – Madison, STAT 311, 312.

Intro. to Statistical Computing, Summer 2004, 2005.

Intermediate Macroeconomics, Fall 2001, UW – Madison, ECON 302

Honors Micro / Macroeconomics, Spring 2000, UW – Madison, ECON 111

Intro. Microeconomics, Fall 2000, UW – Madison, ECON 101

## **Service**

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Referee for: *Communications in Statistics: Simulation and Computing*; *Contemporary Economic Policy*; *Statistics & Probability Letters*; *Journal of Money, Credit and Banking*; *IEEE Transactions on Evolutionary Computation*.

Organizer of the UW – Madison Dept. of Statistics Student Research Seminar, 2004-06.

## **Professional Affiliations**

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American Statistical Association

Institute for Mathematical Statistics

Institute for Operations Research and the Management Sciences