

Eric Zhang Chen

CONTACT INFORMATION	Blockley Hall Department of Biostatistics University of Pennsylvania Philadelphia, PA 19104 USA <i>E-mail:</i> zhch@mail.med.upenn.edu
RESEARCH INTERESTS	Statistical methods for high-throughput sequencing data analysis with application to human microbiome study
EDUCATION	<p>Carnegie Mellon University, Pittsburgh, Pennsylvania USA</p> <p>Ph.D. Candidate, Statistics, December 2001 (expected graduation date: May 2003)</p> <ul style="list-style-type: none">• Dissertation Topic: “Nonstationary Covariance Models for Spatial Data and Regression Problems”• Advisor: Mark J. Schervish <p>M.S., Statistics, May 2000</p> <p>Duke University, Durham, North Carolina USA</p> <p>M.S., Botany (Ecology), May, 1998</p> <p>Carleton College, Northfield, Minnesota USA</p> <p>B.A., Biology, May, 1993</p>
ACADEMIC EXPERIENCE	<p>Carnegie Mellon University, Pittsburgh, Pennsylvania USA</p> <p><i>Graduate Student</i> August, 1998 - present Includes current Ph.D. research, Ph.D. and Masters level coursework and research/consulting projects.</p> <p><i>Instructor</i> May - June, 2002 Co-taught graduate level course for the Master of Science in Computational Finance program. Shared responsibility for lectures, exams, homework assignments, and grades.</p> <ul style="list-style-type: none">• 46-731 Probability and Statistics, Summer 2002. <p><i>NSF VIGRE Teaching Fellow</i> January - May, 2001 Head teaching assistant. Duties included shared administrative responsibilities with faculty instructor, fielding of all student inquiries, and oversight of graduate student teaching assistants and graders.</p> <ul style="list-style-type: none">• 36-217 Probability Theory and Random Processes, Spring 2001. <p><i>Teaching Assistant</i> August, 2001 - present Duties at various times have included office hours and leading weekly computer lab exercises.</p>
PUBLICATIONS	<p>Paciorek, C.J., J.S. Risbey, V. Ventura, and R.D. Rosen. 2002. Multiple indices of Northern Hemisphere Cyclone Activity, Winters 1949-1999. <i>Journal of Climate</i> 15:1573-1590.</p> <p>Paciorek, C.J., R. Condit, S.P. Hubbell, and R.B. Foster. 2000. The demographics of resprouting in tree and shrub species of a moist tropical forest. <i>Journal of Ecology</i> 88:765-777.</p> <p>Paciorek, C.J., B.R. Moyer, R.A. Levin, and S.L. Halpern. 1995. Pollen consumption by hummingbird flower mite <i>Proctolaelaps kirmsei</i> and possible fitness effects on <i>Hamelia patens</i>. <i>Biotropica</i></p>

27:258-262. (author order determined by lot)

PAPERS IN
PREPARATION

Ventura, V., C.J. Paciorek, and J.S. Risbey. Controlling the proportion of falsely-rejected hypotheses when conducting multiple tests with geophysical data.

Ickes, K., C.J. Paciorek, and S. Thomas. Effects of wild pigs on forest demographic processes in Malaysia.

CONFERENCE
PRESENTATIONS

Paciorek, C.J., J.S. Risbey, V. Ventura, and R.D.Rosen. 2001. Changes in Northern Hemisphere winter storm activity (1949-1999) based on a comparison of cyclone indices. 8th International Meeting on Statistical Climatology, Luneberg, Germany, March, 2001.

Paciorek, C.J. and R. Rosenfeld. 2000. Minimum classification error training in exponential language models. 2000 Spring Transcription Workshop, College Park, Maryland.

<http://www.nist.gov/speech/publications/tw00/html/abstract.htm#cp1-50>

TEACHING
EXPERIENCE

Teaching Assistant

GCB535 Introduction to Bioinformatics

Spring 2015

COMPUTER SKILLS

- Statistical Packages: R, S-Plus, BUGS; some experience with SAS; extensive use of C and Fortran statistical libraries.
- Languages: C++, Perl, Pascal, some use of Unix shell scripts, MPI parallel processing library.
- Applications: Generic Mapping Tools (GMT) - Unix mapping software, L^AT_EX, common Windows database, spreadsheet, and presentation software
- Algorithms: Experience programming Markov Chain Monte Carlo simulations of Bayesian posterior distributions
- Operating Systems: Unix/Linux, Windows.