

# Tuan S. Nguyen

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CITIZENSHIP	USA
RESEARCH INTERESTS	Dimension reduction, microarray gene expression data, survival analysis, clinical trials.
EDUCATION	<b>Rice University</b> , Houston, Texas USA <b>Ph.D. in Statistics</b> (expected graduation date: Dec. 2009) Thesis Topic (under the supervision of Prof. Javier Rojo): Dimension Reduction and Survival Analysis with Applications to Microarray Gene Expression Data. GPA: 4.00 <b>M.A. in Statistics</b> , Jan. 2009 <b>University of California, Berkeley</b> , Berkeley, California USA <b>B.S. in Engineering Mathematics and Statistics</b> , Dec. 2004
ACADEMIC EXPERIENCE	<b>Graduate Student, Rice University, Houston, TX</b> <b>Research Assistant</b> (Spring 2006 to present) Includes current Ph.D. research and course work. <b>RUSIS Graduate Student Assistant</b> (Summer 2006, 2007, and 2009) Assisted groups of one to three undergraduate students with their research in dimension reduction, survival analysis and extreme value theory; instructed and assisted the students program in R; provided guidance and insight to the students on the graduate school application process. The Rice University Summer Institute of Statistics (RUSIS) program aims to attract more minority students into graduate school in the Mathematical and Statistical Sciences, and engage students in research work. <b>Lab Instructor for Introduction to the Practice of Statistics course</b> (Fall 2005) Lectured weekly laboratory sessions, prepared lab teaching materials, graded exams and homeworks. <b>Undergraduate Student, University of California, Berkeley, CA</b> <b>Student Instructor for Introduction to Probability and Statistics for Business Majors course</b> (Fall 2004) Instructed students in Statistics discussion sessions, engaged students in small group discussions, and tutored students in office hours; prepared teaching materials, created quizzes, and assisted the instructor in proctoring and grading exams.
PROFESSIONAL EXPERIENCE	<b>Actuarial Analyst, Wellpoint, Thousand Oaks, CA</b> (Jan. 2005 to Aug. 2005) Prepared and performed Medical Premium Calculations; executed technical work on Excel spreadsheets; passed the 1 <sup>st</sup> and 2 <sup>nd</sup> actuarial exams.

**Program Assistant for the José Valdés Math Institute, San Jose, CA** (Summer 2000 and 2002)

Assisted math teachers in developing and organizing the curriculum to create a positive learning environment for middle and high school students; lectured and tutored students basic math concepts in Algebra, Geometry and Trigonometry. The José Valdés program focuses in preparing students to succeed in mathematics and increasing the number of underrepresented minorities in programs leading to college entrance and professional careers.

- PUBLICATIONS AND PRESENTATIONS
- Rojo, J. and **Nguyen, T.S.** (2009). *Improving the Johnson-Lindenstrauss Lemma*. Journal of Computer and System Sciences. Submitted.
- Nguyen, T.S.** and Rojo, J. (2009). *Dimension reduction of microarray gene expression data: the accelerated failure time model*. Journal of Bioinformatics and Computational Biology. Accepted and to be printed in Dec. 2009 issue.
- Nguyen, T.S.** and Rojo, J. (2009). *Dimension reduction of microarray data in the presence of a censored survival response: a simulation study*. Statistical Applications in Genetics and Molecular Biology, Vol. 8, issue 1, article 4.
- Nguyen, T.S.** and Rojo, J. (2008). "Improving the bound from the Johnson-Lindenstrauss lemma in  $L_2$ -norm." Poster Graduate Student Presentation, Society for the Advancement of Chicanos and Native Americans (SACNAS) Conference, Salt Lake City, UT, Oct. 2008.
- Becker, N.S, Barshes, N.R., Aloia, T.A., **Nguyen, T.S.**, Rojo, J., Rodriguez, J.A., OMahony, C.A., Karpen, S.J., and Goss, J.A. (2008). *Analysis of recent pediatric orthotopic liver transplantation outcomes indicates that allograft type is no longer a predictor of survivals*. Liver Transplantation, Vol. 14, issue 8, pp. 1125-1132. Published online: July 30, 2008.
- CONFERENCES
- Attended the Nonparametric Workshop, University of Texas-Arlington, Arlington, TX, April 2009.
- Attended and presented at the SACNAS Conference, Salt Lake City, UT, Oct. 2008.
- Attended the 3<sup>rd</sup> Lehmann Symposium, Rice University, Houston, TX, May 2007.
- Attended the Pan-American Advanced Studies Institute, El Salvador, July 2006.
- AWARDS
- Rice University**
- Financially supported by the National Science Foundation (NSF) Grant, the NSF RUSIS Grant, the National Security Agency (NSA) RUSIS Grant, and the National Cancer Institute (NCI) Grant.
- University of California, Berkeley**
- Parikh Scholarship, 2004.
- Awarded by the College of Engineering, University of California, Berkeley. The Parikh Scholars Program focuses on interdisciplinary studies in engineering.
- RELEVANT COURSEWORK
- Statistical Inference, Stochastic Processes, Introduction to Regression and Statistical Computing, Biostatistics, Statistical Genetics, Topics in Clinical Trials, Bayesian Data Analysis, Survival Analysis, Multivariate Analysis, Data Mining, Simulation, Extreme Value Theory, Generalized Linear Models & Categorical Data Analysis, Nonparametric Function Estimation, Time Series Analysis, Market Models, Corporate Finance, Microeconomic Theory, Macroeconomic Theory.
- TECHNICAL SKILLS
- R, SPlus, Matlab; Latex, Microsoft Office.