Nancy L. Glenn, Ph. D.
Associate Professor

glennnl@tsu.edu   (713) 313 – 1338

EDUCATION:

Rice University • Houston, Texas   May 2002
  Doctor of Philosophy in Statistics, Department of Statistics.
  Dissertation: "Robust Empirical Likelihood"
  Advisor: Professor David W. Scott
  Honors: Graduated at top of class (#1)
        Awarded full academic fellowship:
        Alliance for Graduate Education and the Professoriate

University of South Carolina • Columbia, S. C.   1994 – 1995
  Bachelor of Science in Statistics, Department of Statistics.
  Honors: Inducted into Mu Sigma Rho National Statistics Honor Society

University of South Carolina • Columbia, S. C.   1983 – 1987
  Bachelor of Science in Mathematics, Department of Mathematics.
  Honors: Awarded full academic scholarships:
        James F. Byrnes Scholar, Air Force ROTC Scholar
        Inducted into Pi Mu Epsilon National Mathematics Honor Society

POSTDOCTORAL POSITION:

Rice University • Houston, Texas   May 2002 – August 2002
  Post Doctoral position funded by the National Security Agency; worked with Professor Dennis Cox of
  the Department of Statistics, Rice University.

RESEARCH GRANTS AWARDED:

National Science Foundation • $1,500   **Nancy L. Glenn**, PI
  "Effects of Spatial Correlation on Empirical Likelihood"   June 2011.

College of Science and Technology Faculty Development Fund • $300   **Nancy L. Glenn**, PI
  "Statistical Physics Super Computer Conference"   December 2010.

Texas Southern University Faculty Development Fund • $2,000   **Nancy L. Glenn**, PI
  "Effects of Spatial Correlation on Empirical Likelihood"   June 2010.

NASA • $5,000,000   Dr. Olufisayo Jejelowo (PI), **Nancy L. Glenn** (co–PI), et al.,
  "Center for Bionanotechnology and Environmental Research"   2008–2013.

Texas Southern University Research Enhancement Program • $15,000   **Nancy L. Glenn**, PI
  "Classification and Regression Trees: Future Use in Microarray and Serial Analysis of Gene Expression
  Data"   2007 – 2008.

Graduate Research Assistantship Grant • $12,000   **Nancy L. Glenn**, PI
  USC Graduate School   2004 – 2005.

South Carolina EPSCoR • $9964   Austin Hughes and **Nancy L. Glenn**, co–PI
  "Interdisciplinary Team for Study of Evolution of Flight in Birds"   March 2005 – December 2005.

RESEARCH PAPERS:

"Nonparametric spirometry reference values for Hispanic Americans" • **Nancy L. Glenn** and
  Vanessa M. Brown (2011)   Journal of Immigrant and Minority Health **13(1)**:69–73.

"Weighted empirical likelihood estimates and their robustness properties" • **Nancy L. Glenn**
  and Yichuan Zhao (2007)   Computational Statistics and Data Analysis **51**:5130–5141.

"Empirical likelihood estimation from incomplete data" • **Nancy Glenn**(2006)   Journal of
  Probability and Statistical Science **4**:1–8.

"Contrasting patterns of transcript abundance in tumor tissue and cancer cell lines" • Austin Hughes and **Nancy Glenn**(2006) Applied Bioinformatics **5(4)**:201–210.

"The future of data analysis in evolutionary genomics" • Austin Hughes, Robert Freidman and **Nancy Glenn**(2006) Current Genomics **7**:227–234.

"Role of microRNAs in regulation of lentiviral latency and persistence" • Omar Bagasra, Lucia Pirisi–Creek, Kim E. Creek, Alexander U. Bagasra, **Nancy Glenn** and Jeremy S. Lee (2006) Applied Immunohistochemistry & Molecular Morphology **14**(3):276–90.

"Recruitment to adult habitats following marine planktonic development in the fiddler crab" • Renae Brodie, Matthew Behum, Emily Monroe, **Nancy Glenn** and Joseph Staton (2005) Marine Biology **147**:105–111.

RELEVANT COMPUTER SKILLS:

UNIX, Windows, S–plus, SAS, R, C++, MATLAB, X-Maple, SYSTAT, Minitab, HTML, Excel, Power-point, LaTeX

LANGUAGE SKILLS:

Spanish (advanced level written and spoken)

EDITORIAL RESPONSIBILITIES:

Molecular Phylogenetics and Evolution • article reviewer   October 2008

Journal of the American Statistical Association • article reviewer   September 2006

Journal of Probability and Statistical Science • article reviewer   April 2006

Biometrical Journal • article reviewer   December 2004

Journal of Computational and Graphical Statistics • article reviewer   August 2004

Journal of Computational and Graphical Statistics • article reviewer   November 2003

Empirical Likelihood • Art Owen
Chapman and Hall / CRC Press, 2001

GRADUATE STUDENTS:

Deidre Sharkey • dissertation committee   2011
Ed. D. Education.
Crystal Piper • dissertation committee   2007
Ph. D. Public Health.
Paige W. Lewis • 2nd reader, thesis committee   2006
M.S. Public Health,   employed by Centers for Disease Control and Prevention, Atlanta, Georgia.
Vanessa M. Brown • thesis advisor   2005
M.S. Statistics,   employed by MasterCard.
Amanda Ballou • thesis committee   2005
M.S. Statistics,   employed by South Carolina Budget and Control Board.

RESEARCH PRESENTATIONS:

Texas Southern University Research Week • Houston, TX   April 2011
  "A Nonparametric Statistical Methodology for Establishing Normal Pulmonary Ranges for Americans of
  Mexican Descent"

Joint Statistical Meetings • Vancouver, BC   August 2010
  "Effects of Spatial Dependence on Empirical Likelihood"

World Statistics Day • Rice University   October 2010
  "Spatial Correlation and Empirical Likelihood"

Texas Southern University Research Week • Houston, Texas   April 2009
  "The Nonparametric Expectation–Maximization Algorithm for Insufficient Information".

Texas Academy of Sciences Conference • Junction, Texas   March 2009
  "Empirical Likelihood Spirometry Reference Values".

Joint Statistical Meetings • Minneapolis, Minnesota   August 2005
  "Weighted Empirical Likelihood Estimates and Their Robustness Properties".

Texas A&M University • Nonparametric Statistics Conference   January 2005
  "Empirical Likelihood Estimates and Their Robustness Properties".

Rice University • Lehmann Symposium   May 2004
  "Weighted Bayesian Empirical Likelihood".

INVITED RESEARCH PRESENTATIONS:

Joint Statistical Meetings • Denver, Colorado   August 2008
  "Empirical Likelihood Method for Determining Spirometry Reference Values for Hispanic Americans"

Bioinformatics Research Symposium • Clemson University   January 2007
  "GEM for Linear Models with Missing Data"

Institute for Mathematics and its Applications • Minneapolis, MN   October 2006
  "EL Algorithm for Linear Models with Missing Data"

American Institute of Mathematics • Palo Alto, CA   August 2005
  "A New Nonparametric Approach to Testing Internal Branches in Phylogenetic Trees"

International Chinese Statistical Association • Washington, DC   June 2005
  "Nonparametric Analysis of Phylogenetic Tree Data"

North Carolina State University • Department of Statistics   April 23, 2004
  "Weighted Empirical Likelihood"

Georgia State University • Department of Mathematics & Statistics   April 2, 2004
  "Weighted Bayesian Empirical Likelihood Point Estimation"

South Carolina Bioinformatics Symposium • Isle of Palms, SC   March 2004
  "Empirical Likelihood Theory and Phylogenetic Trees"

University of South Carolina • Department of Biostatistics   February 2004
  "Weighted Bayesian Empirical Likelihood"

University of South Carolina • Department of Statistics   November 2003
  "Robust Bayesian Empirical Likelihood"

USC Bioinformatics Symposium • Columbia, SC   November 2003
  "Empirical Likelihood and Phylogenetics"

Richard Tapia Computing Conference • Atlanta, Georgia   October 2003
  "A Statistical Application of Karush–Kuhn–Tucker: Robust Bayesian Empirical Likelihood"

Spelman College • Mathematics Department   October 2003
  "Using Karush–Kuhn–Tucker to Maximize Empirical Likelihood"

University of Alabama, Birmingham • Biostatistics Department   July 2003
  "Empirical Likelihood of Phylogenetic Trees"

Conf. African–American Researchers Mathematical Sciences • Purdue University   June 2003
  "A Statistical Application of the Karush–Kuhn–Tucker Theorem"

University of South Carolina • Department of Computer Science and Engineering   April 2003

"Statistical Learning Techniques for Intelligent Memory Management"

University of Georgia • Athens, Georgia   March 2003
    "Robust Empirical Likelihood"

Joint Mathematics Meetings • Baltimore, Maryland   January 2003
    "Robust Empirical Likelihood"

Conf. of Texas Statisticians • Houston, Texas   April 2002
    "Robust Empirical Likelihood"

SIAM 2001 Annual Meeting • San Diego, California   July 2001
    "Robust Empirical Likelihood"

Conf. African–American Researcher Mathematical Sciences 7 • Duke University   June 2001
    "Robust Empirical Likelihood"

National Science Foundation • Washington, D.C.   December 1995
    "Probability Concepts In Secondary School"

RESEARCH CONFERENCE ATTENDANCE:

Texas Southern University • Houston, TX   December 2010
    Statistical Physics Super Computer Conference

Rice University • Houston, TX   June 2009
    CAARMS15

Rice University • Houston, TX   May 2009
    Tapia Conference

Rice University • Houston, TX   March 2009
    Eubank Conference: Modeling Real World Markets

Lamar University • Beaumont, TX   February 2009
    Probability, Statistics and Related Areas

INVITED RESEARCH WORKSHOP ATTENDANCE:

American Institute of Mathematics • Palo Alto, CA   August 2005
    Phylogenetic Tree Analysis Workshop

Joint Statistical Meetings • San Francisco, CA   August 2003
    Pathways Workshop

American Institute of Mathematics • Palo Alto, CA   May 31, 2003 – June 5, 2003
    Geometric Models of Biological Phenomena Workshop

GRANT WORKSHOP ATTENDANCE:

USC Sponsored Research Office • University of South Carolina   April 2007
    CAREER Grant Proposal Writing Workshop

USC Sponsored Research Office • University of South Carolina   April 2007
    NIH Proposal Writing Workshop

USC Sponsored Research Office • University of South Carolina   March 2007
    NSF Proposal Writing Workshop

USC Sponsored Research Office • University of South Carolina   September 2006
    General Proposal Writing Workshop

USC Sponsored Research Office • University of South Carolina   April 2006
    Grants.gov Overview

TEACHING WORKSHOP ATTENDANCE:

Texas Southern University • MyMathLab   September 2007
    Technology Training

TEACHING EXPERIENCE:

Texas Southern University • Houston, Texas   2007 – present

Associate Professor - tenured, Department of Mathematics

University of South Carolina • Columbia, S.C.   2002–2007
    Assistant Professor, Department of Statistics
Rice University • Houston, Texas   1996 – 2000
    Lab assistant for introductory statistics course
Midlands Technical College • Columbia, S.C.   Fall 1995
    Instructor for College Algebra
Southwestern College • San Diego, California   1990–1992
    Instructor for College Algebra

COURSES TAUGHT AT TSU:

Applied Probability and Stochastic Processes (developed course) •   MATH 499

Elementary Statistics •   MATH 231

Business Calculus •   MATH 135

College Trigonometry •   MATH 134

College Algebra •   MATH 133

COURSES TAUGHT AT USC:

Theory of Nonparametric Statistics •   STAT 724

Nonparametric Statistics •   STAT 518

Probability and Stochastic Processes •   STAT 510

Statistics for Engineers and Scientists •   STAT 509

Statistical Methods •   STAT 515

Elementary Statistics •   STAT 201

Introduction to Descriptive Statistics •   STAT 110

PROFESSIONAL MEMBERSHIPS:

    Houston American Statistical Association (current Chapter Representative)
    American Statistical Association (ASA)
    Nonparametric Statistics Section of the American Statistical Association

PROFESSIONAL AND UNIVERSITY SERVICE:

College of Science and Technology Research Committee • Member   2010 – present

TSU Honors College Committee • Member   2009 – present

TSU College of Science and Technology Research Week Committee • Chair   Spring 2009

Houston American Statistical Assoc. • Chapter Representative   2008 – present

TSU College of Science and Technology Research Committee • Member   2007 – present

University of South Carolina Life–Long Learning Committee • Member (Appointed by Provost)
   2007

SC American Statistical Assoc. • Chapter Representative   2004 – 2007

Department of Statistics Faculty Awards Committee • Member   2006 – 2007

Department of Statistics Graduate Advisory Committee • Member   2006 - 2007

Health Sciences Computing Center Planning Committee • Member   fall 2004

Department of Statistics Qualifier Exam Committee • Member   fall 2004

North Carolina State University • Statfest   November 2003
   volunteer
Department of Statistics Undergraduate Advisory Committee • Member   2002 – 2005

Department of Statistics Awards Committee • Member   fall 2003

Department of Statistics Distance Education Committee • Member   spring 2003

INVITED NONRESEARCH PRESENTATIONS:

South Kilbourne Elementary • Columbia, SC   February 2007
   "Do You Want To Be A Statistician"
Lincoln High School Commencement • McClellanville, SC   May 2003
   Keynote Speaker

COMMUNITY SERVICE:

Meadowfield Elementary Annual Field Day • volunteer   May 2004 - May 2006

47th **Annual USC Central South Carolina Region II Science & Engineering Fair** • judge March
   2003

GirlTECH • volunteer   1999-2001

CULTURAL MEMBERSHIPS:

   Houston Museum of Fine Arts

AWARDS

Faculty Poster Presentation, 2nd Place • TSU Research Week
   April 2008.
Award for Lifelong Commitment to the Pursuit of Scholarship and Excellence • USC
   April 10, 2003