

CURRICULUM VITAE

Sastry G. Pantula
Professor, Department of Statistics
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Oregon State University
Corvallis, OR 97331

Phone: (919) 247-0589
Email: Sas3pantula@gmail.com
Citizenship: U.S. Citizen

Education:

Ph.D. August, 1982
Department of Statistics, Iowa State University, Ames, IA

M.S. July, 1979, Major: Statistics
Indian Statistical Institute, Calcutta, India

B.S. July, 1978, Major: Statistics
Indian Statistical Institute, Calcutta, India

Honors and Awards:

Honorary Member, The Phi Beta Kappa Epsilon Chapter of OSU, 2017

Paul Minton Award, SRCOS, 2016

ASA Founders Award, 2014

NSF Director's Awards for Collaborative Integration, 2012

1. IGERT- CIF21 Science and Engineering Collaboration
2. Collaboration for Successful Launch of Ground Breaking International Initiatives
3. EHR-MPS Cross-Directorate Team

Fellow, American Association for the Advancement of Science, 2011

Past President, American Statistical Association, 2011

President, American Statistical Association, 2010

President-Elect, American Statistical Association, 2009

Department Head Award, SAA-PAMS, 2008

Department Head Award, SAA-PAMS, 2005

Fellow, American Statistical Association, August 2002

Young Statistician Award, 2002, International Indian Statistical Association

D.D. Mason Faculty Award, 2001

Named an **Outstanding Teacher** at North Carolina State University, Spring 1986
Member of the NCSU **Academy of Outstanding Teachers**

Member of Honor Societies: **Phi Kappa Phi, Sigma Xi, and Mu Sigma Rho**

George Snedecor Award for the most outstanding PhD candidate,
1981, Department of Statistics, Iowa State University, Ames, IA

Professional Experience:

9/2013- present: **Professor**, Department of Statistics, Oregon State University

9/2013- 8/2017: **Dean**, College of Science, Oregon State University

9/2010- 8/2013: **Division Director**, Division of Mathematical Sciences,
National Science Foundation

8/2002- 9/2010: **Head**, Department of Statistics, North Carolina State University

8/2002- 7/2009: **Director**, Institute of Statistics, North Carolina State University

1/2000- 8/2002: **Assistant Head** of the Department
Department of Statistics, North Carolina State University

9/1994- 8/2002: **Director of Graduate Programs**
Department of Statistics, North Carolina State University

7/1994- 8/2013: **Professor**
Department of Statistics, North Carolina State University

7/1988- 6/1994: **Associate Professor**
Department of Statistics, North Carolina State University

8/1990- 3/1991: **Scholarly Assignment**, SEMATECH, Austin, TX

8/1982- 6/1988: **Assistant Professor**

Department of Statistics, North Carolina State University

Other Relevant Experience:

8/2004- 9/2010: **Treasurer** for the National Institute of Statistical Sciences

1/2005- 12/2008: **Treasurer** for the American Statistical Association

Book:

Rawlings, J. O., S. G. Pantula and D. A. Dickey (1998). *Applied Regression Analysis: A Research Tool*. Springer Verlag, NY.

Fundraising:

As the Dean of College of Science, fundraising is a significant part of the job. We have raised \$3.1m, \$2.1m, \$4.8m and \$3.8m during the past four fiscal years, respectively.

Worked with PAMS Foundation and alumni to establish three \$1,000,000 endowments-

Cox Distinguished Professor

Fisher Distinguished Professor

Hunter Distinguished Professor

Funded Grants:

Graduate Training:

NSF - VIGRE Traineeship grant

“Training Problem Solvers - A Research Centered Learning Community”

Co-PI with Drs. T. Gerig, L. Stefanski, W. Swallow, A. Tsiatis, and

B. Weir

1999 - 2004 (**\$2,746,310**)

U.S. EPA - Cooperative Agreement, Program Director

“Cooperative Training in Environmental Statistics with EPA”

2001 - 2006 (**\$662,013**)

NSF – VIGRE-II

“Integrated and Mentored Program of Research and Education
in Statistical Sciences(IMPRESS)”
2004-2010 (**\$2,650,000**)

NSF- CSUMS

“Computation for Undergraduates in Statistics Program (CUSP)”
2008- 2010 (**\$450,000**)

NSF- S-STEM

“Mentoring for Total Success”
2008- 2010 (**\$600,000**)

Graduate Fellowships:

SAS Institute	2000 - 2005	\$125,000
Merck	2001 - 2003	\$105,000
Eli Lilly	2005 - 2008	\$75,000

Graduate Industrial Traineeships:

With- Analytical Sciences Inc.; Becton Dickinson; Clintrials; Cuddy Farms;
Duke Clinical Research Institute; GlaxoSmithKline; InterLeap; Inveresk;
NISS; PPD-Pharmaco; Quintiles; Rho Inc.; SAS;
Triangle Pharmaceuticals;

Research:

NSF - “Determining bandwidth in spectrum estimation”
PI- Dr. P. Bloomfield
1984 - 1986 (**\$68,200**)
Received support (\$12,000) as a Post-doctoral Associate

NSF - “Developments in time series methodology”
Co-PI with Dr. P. Bloomfield
1985 - 1989 (**\$130,424**)

U.S. Fish and Wildlife - “Development methods and computer programs for the
analysis of repeated measurements in time”
Co-PI with Dr. K. Pollock
1986 - 1987 (**\$29,500**)

U.S. EPA - "Detecting the climate effects of greenhouse gases"
Co-PI with Drs. P. Bloomfield, J. Monahan, and D. Nychka
1988 - 1990 (**\$70,000**)

U.S. Bureau of Census - "Triple system estimation for population size"
Co-PI with Drs. S. Ghosh, K. Pollock, and L. Stefanski
2000 - 2002 (**\$236,430**)

Conference:

NBER-NSF Time Series Workshop, Organizing Committee Chair,
North Carolina State University, Raleigh, September 2001 (**\$12,000**)

Service:

Editorial Service:

Associate Editor for *The American Statistician* 1987 - 1993
Co-editor of *Sankhya* 2000 - 2002
Associate Editor- *Journal of Business and Economic Statistics* 2001 – 2006
Associate Editor- *Statistics & Probability Letters*, 2002- 2007.
Editorial Board Member- *Journal of Statistical Theory and Practice* 2006- 2010,
2014- present.
Reviewed several NSF proposals, NSF review panel,
including NSF-VIGRE site visits
Reviewed a proposal for the Research Council of Canada
Refereed papers for numerous statistical journals (including, *Annals of Statistics*,
Biometrics, *Communications in Statistics*, *Econometric Reviews*,
Econometric Theory, *Econometrica*, *Journal of the American Statistical*
Association, *Journal of Business and Economic Statistics*, *Journal of*
Econometrics, *Journal of Time Series Analysis*, *Reviews of Economics and*
Statistics, *Sankhya*, and *Technometrics*)

Service to the Profession:

Member 2016- present: NAM Golden Anniversary Capital Campaign Committee
Member 2014- present: AAAS Section U Nominations Committee, Chair 2017
Member 2014- 2016: ASA Development Committee
Member, 2012- 2013, ASA Working Group on Training the Next Generation
Member, 2011- 2013, NITRD Big Data Working Group;
Co-Chair- Workforce Development Group
Member, 2011- 2013, Committee for the International Year of Statistics 2013
Co-Chair, OSTP Task Force on Public Access, 2011

Member Auditor- 2009 International Statistical Institute
Review Committee member for Math/Stat departments at
Georgia, Colorado State, UT-Dallas, New Mexico
Chair- 2008 for Business and Economics Section of ASA
Chair- elect 2007 for Business and Economics Section of ASA
Program Chair-elect for 2000 JSM – Business Economics Section of ASA
Program Chair for 2000 JSM Business Economics Section of ASA
Publications officer, 2001-2004, Business Economics Section of ASA
Chaired sessions at various Joint Statistical Meetings and NBER-NSF Time
Series Workshops
A member of COPSS committee that selected the COPSS award for a young
Statistician 2002-2005.
A member of Youden Award committee for ASA 2004-2006
Treasurer for NISS 2004- 2010
Treasurer for ASA 2005- 2008
Chair of the ASA Finance Committee 2005- 2008
Chair of the ASA Audit Committee 2005- 2008
ASA Board member 2005- 2011
Life Member of ASA, IMS, IISA, ICSA, Sigma Xi and Phi Kappa Phi
Member of ENAR, ISI, SIAM
NC-ASA Chapter Conference Organizing Committee member 2007

Departmental Service at NCSU:

Ph.D. Minor Exam Committee, 1983
Seminar Committee, 1983-84, 1985
Basic Exam Committee, 1984, 1987, 1989, 1990, 1992, 1993
ST371-372 Decennial Review Committee, 1985
Ph.D. Preliminary Written Exam Committee, 1986
Departmental Review Committee, 1987
Merit Scholarship Committee, 1988
Advisor to the Undergraduate Statistics Club, 1987
Beach Trip Committee, 1987
Open House Committee, 1987
Ph.D. Program Review, 1993
Faculty Search Committee, 1987, 1995, 1996, 1997, 2000
Mendenhall Fellowship Committee, 1996 - 2002
Cox Fellowship Committee- 1996 - 2002
Admissions Committee, 1994 - 2002
Homepage Committee, 1994 - present
Paige Plagge Award Committee, 1996 - 2002
Course and Curriculum Committee, 1994 – 2002
Pipeline Workshop Committee, 2006

Infinite Possibilities Committee, 2007

University Service:

University committee on International Programs, 1987
University committee on International Programs, 1990
Member of the Executive Committee- Sigma Xi Honor Society, 1990 - 1992
PAMS Graduate Administrators Committee, 1994-2002
Graduate School Recruiting Task Force, 2000 - 2002
Compact Disc Development Committee for Recruiting, 2000 - 2002
Member of the Graduate Administrative Board, 2001 – 2002
Member of the Assessment Taskforce, 2005
India Advisory Group 2007- 2010
CALs Diversity Council 2008- 2010
NCSU Heads Steering Committee 2009- 2010

OSU- Chair, Vice President for Research Search Committee, 2015
OSU- Member of NSF-ADVANCE Deans Council 2014-2017
OSU- Member of the International Programs Strategic Plan Committee 2016
OSU- Member of Provost Search Committee, 2016
OSU- Chair, Vice President and Chief Diversity Officer Search Committee, 2016
OSU- Member of Executive Director University Industry Partnership Search Committee, 2017
OSU- Infrastructure Working Group, 2015-2017

Ph.D. Students:

Qianyi Zhang* 2008
Dazhe Wang* 2003
Wen Ji* 2003
Kapildeb Sen 2002
Zyenep Kalaylioglu* 2002
Chao-Ping Huang* 1999
Paritosh Dixit* 1998
Amit Sen* 1997
Seongyeon Kim 1997
Hongguang Sun 1996
Elizabeth Morgan* 1996
Shu An* 1994
Tonya Etchison* 1993
Rogelio Ramos 1993
Consuelo Arellano 1992
Ji Zhang* 1990

Marcia Gumpertz* 1989

* Co-chair

Consulting Experience:

Consulted with faculty and graduate students from the following departments at NCSU Animal Science, Botany, Civil Engineering; Computer Science; Crop Science, Economics, Education; Electrical Engineering; Entomology, Foreign Languages; Graphic Communications; Industrial Engineering; Marine Earth and Atmospheric Sciences; Mechanical Engineering Textiles; Traffic Engineering; Water Resources Research Institute.

Courses Taught:

Introductory Probability and Statistics for Engineers
Applied Time Series
Time Series - Time Domain
Statistical Quality Control
Linear Models
Multivariate and Nonlinear Models
Statistics For Management and Social Sciences II
Short courses on Statistical Methods, Quality Control and Design of Experiments for various companies
Independent study - Linear Models, Masters and Ph.D. examination review sessions
Short course on Time Series Analysis, Barcelona, Spain

Areas of Research:

Time series analysis; Spatial Statistics; Linear and nonlinear models; Quality Control

Refereed Publications:

Wang, D., Ghosh, S. K. and **Pantula, S. G.** (2010). "Maximum Likelihood Estimation and Unit Root Test for First Order Random Coefficient Autoregressive Models," *Journal of Statistical Theory and Practice*, 4, 261-278.

Dickey, D. A., and **S. G. Pantula** (2002). "Determining the order of differencing in AR processes." *Journal of Business Economics Statistics*, 20: 18-24.
(20th Anniversary Commemorative Issue- published originally in 1986)

- Haines, D. E., K. H. Pollock, and **S. G. Pantula** (2000). "Population size and total estimation when sampling from incomplete list frames with heterogeneous inclusion probabilities." *Survey Methodology*, Vol. 26, No. 2, pp. 121-129.
- Sun, H. and **S. G. Pantula** (1999). "Testing for trends in correlated data." *Statistics and Probability Letters*, 41, 87-95.
- Park, Y.J. and **S. G. Pantula** (1998). "Variance estimators in the Chu-White test for structural change." *Communications in Statistics- Simulation*, 27(4), 1019-1029.
- Gumpertz, M. L. and **S. G. Pantula** (1998). "Random Coefficient regression." In *Encyclopedia of Statistical Sciences*. Ed. Kotz, S., Read, C. and Banks, D. Wiley.
- Ramos, R. Q. and **S. G. Pantula** (1995). "Estimation of nonlinear random coefficient models." *Statistics & Probability Letters*, 24: 49-56.
- Arellano, C. and **S. G. Pantula** (1995). "Testing for trend stationarity versus difference stationarity." *Journal of Time Series Analysis*, 16:147-164.
- Etchison, T., C. Brownie and **S. G. Pantula** (1995). "A Portmanteau test for spatial ARMA models." *Biometrics*, 51: 1536-1542.
- Etchison, T., **S. G. Pantula** and C. Brownie (1994). "Partial autocorrelation for spatial ARMA models." *Statistics and Probability Letters*, 21: 9-19.
- Pantula, S. G.**, G. Gonzalez-Farias and W. A. Fuller (1994). "A comparison of unit root test criteria." *Journal of Business and Economic Statistics*, 12: 449-459.
- Pantula, S. G.** and W. A. Fuller (1993). "The large sample distribution of the roots of the second order autoregressive polynomial." *Biometrika*, 80: 919-923.
- Shin, D. and **S. G. Pantula** (1992). "Testing for a unit root in autoregressive processes with systematic but incomplete sampling." *Statistics and Probability Letters*, 18: 183-190.
- Gumpertz, M. and **S. G. Pantula** (1992). "Nonlinear regression with variance components." *Journal of the American Statistical Association*, 87: 201-209.
- Zhang, J., **S. G. Pantula** and D. Boos (1991). "Robust methods for testing the pattern of a covariance matrix." *Biometrika*, 78: 787-795.
- Schaalje, B., J. Zhang, **S. G. Pantula** and K. H. Pollock (1991). "Analysis of repeated

measurement data from randomized block experiments." *Biometrics*, 47: 813-824.

Pantula, S. G. and A. Hall (1991). "Testing for unit roots in autoregressive moving average models: an instrumental variable approach." *Journal of Econometrics*, 48, 325-353.

Pantula, S. G. (1991). "Asymptotic distributions of unit root tests when the process is nearly stationary." *Journal of Business and Economic Statistics*, 9: 63-71.

Pantula, S. G. (1989). "PROBLEM: The asymptotic distribution of the iterated Gauss Newton estimators of an ARIMA process." *Econometric Theory*, 5: 453.

Gumpertz, M. L. and **S. G. Pantula** (1989). "A simple approach to inference in random coefficient models." *The American Statistician*, 43: 203-210.

Pantula, S. G. (1989). "Testing for unit roots in time series data." *Econometric Theory*, 5: 256-271.

Pantula, S. G. (1989). "PROBLEM: Optimal instrumental variable estimator of the AR parameter of an ARMA(1,1) process." *Econometric Theory*, 5: 173.

Pantula, S. G. (1988). "Estimation of autoregressive models with ARCH errors." *Sankhya- Series B*, 50, 119-138.

Amemiya, Y. A., W. A. Fuller, and **S. G. Pantula** (1987). "The asymptotic distribution of some estimators for a factor analysis model." *Journal of Multivariate Analysis*, 22: 51-64.

Dickey, D. A., and **S. G. Pantula** (1986). "Determining the order of differencing in AR processes." *Journal of Business Economics Statistics*, 5: 455-461.

Sengupta, S., B. K. Sinha, and **S. G. Pantula** (1986). "Some inferential aspects of finite population sampling with additional resources." *Journal of Statistical Planning and Inference*, 16: 203-211.

Pantula, S. G. (1986). "On asymptotic properties of the least squares estimators for autoregressive time series with a unit root." *Sankhya- Series A*, 48: 208-218.

Sinha, B. K. and **S. G. Pantula** (1986). "Linear invariance and admissibility in sampling finite populations." *Sankhya- Series B*, 48: 246-257.

Pantula, S. G. (1986). "Comment: Modeling the Persistence of conditional variances, by Engle and Bollerslev." *Econometric Reviews*, 5: 71-74.

Athreya, K. B. and **S. G. Pantula** (1986). "Mixing properties of Harris chain and AR processes." *Journal of Applied Probability*, 23: 880-892.

Athreya, K. B. and **S. G. Pantula** (1986). "A note on strong mixing of ARMA processes." *Statistics and Probability Letters*, 4: 187-190.

Pantula, S. G. and W. A. Fuller (1986). "A computational algorithm for the factor model." *Communications in Statistics- Theory and Methods*, 15: 227-259.

Pantula, S. G. and K. H. Pollock (1985). "Nested analysis of variance with autocorrelated errors." *Biometrics*, 41: 909-920.

Pantula, S. G., L. A. Nelson, and R. L. Anderson (1985). "Estimation of linear models for field experiments." *Communications in Statistics- Theory and Methods*, 14: 2199-2217.

Pantula, S. G. and W. A. Fuller (1985). "Mean estimation bias in the least squares estimation of autoregressive processes." *Journal of Econometrics*, 27: 99-12

Other Articles:

Pantula, S. G. (2015). "Mentoring: It takes a village. Personal Story." A chapter in *Leadership and Women in Statistics*, Editors- Golbeck, Olkin and Gel. CRC Press.

Pantula, S. G. (2105). "ASA Leaders Reminisce," with Cochran, *The Amstat News*, August 2015.

Pantula, S. G. (2014). "Big Data Crunch: The demand for data analysts is exploding." *Terra* magazine, Oregon State University.

Pantula, S. G. (2011). "Statistics: A key to innovation in a data-centric world." *Journal of the American Statistical Association*.

Pantula, S. G. (2010). Twelve articles in *The Amstat News*, Presidential Invited Column.

Pantula, S. G. (2007). "My Trip to the Hill." *The Amstat News*
(also published in Notices, 2008)

Sun, H. and **S. G. Pantula** (1996). "Estimation of noncausal autoregressive processes." Technical Report, Department of Statistics, North Carolina State University.

Park, Y. and **S. G. Pantula** (1996). "Testing for a trend in long memory processes."

- Technical Report, Department of Statistics, North Carolina State University.
- Park, Y. and **S. G. Pantula** (1996). "Unit root tests in random coefficient models." Technical Report, Department of Statistics, North Carolina State University.
- Gan, N. and **S. G. Pantula** (1994). "Testing for trends in autocorrelated series." Proceedings of the American Statistical Association meetings, Toronto.
- An, S., P. Bloomfield and **S. G. Pantula** (1993). "Asymptotic properties of the MLE in fractional ARMA processes." Technical Report, Department of Statistics, North Carolina State University.
- Potter, R. and **S. G. Pantula** (1992). "Confidence intervals for capability indices in nested experiments." Technical Report, SEMATECH, Austin, TX.
- Bloomfield, P., D. Nychka, J. Monahan and **S. G. Pantula** (1990). "Statistics of climate change." Proceedings of 1990 CALS Climate Change Symposium.
- Pantula, S. G.** and R. Potter (1990). "A note on sample size determination." Technical Report, SEMATECH, Austin, TX.
- Pantula, S. G.**, J. O. Rawlings and T. Arumugham (1989). "Another look at among and within class regressions in analysis of covariance." Technical Report, Department of Statistics, North Carolina State University.
- Lu, J. C. and **S. G. Pantula** (1989). "A repeated measurements model for over-stressed degradation data." Technical Report, Department of Statistics, North Carolina State University.
- Zhang, J., B. Schaalje, **S. G. Pantula** and K. H. Pollock (1987). "REMACRB: Repeated measures analysis of complete data from randomized block experiments." Institute of Statistics Mimeograph Series # 1912. Department of Statistics, North Carolina State University.
- Schaalje, B., J. Zhang, **S. G. Pantula** and K. H. Pollock (1987). "REMAC: Repeated measures analysis of complete data." Institute of Statistics Mimeograph Series # 1911. Department of Statistics, North Carolina State University.
- Pantula, S. G.** (1985). "Estimation for autoregressive processes with several unit roots." Institute of Statistics Mimeograph Series # 1665. Department of Statistics, North Carolina State University.
- Mester, T. C., F. T. Corbin, D. P. Schmitt, A. D. Worsham, L. A. Nelson, **S. G. Pantula** and L. Thompson. (1985). "Response of soybean and morning glory to

combinations of PPG-844 and organophosphate insecticide- nematicides.”
Technical Report, Crop Science, North Carolina State University.

Pantula, S. G. (1984). “Autoregressive Conditionally Heteroscedastic Models.”
Institute of Statistics Mimeograph Series # 1648. Department of Statistics,
North Carolina State University.

Nelson, L. A., **S. G. Pantula**, and R. L. Anderson (1983). “Estimation of linear models
for field experiments in series.” Proceedings of the 44th Session of the
International Statistical Institute.

Seminars:

International Invited Talks:

“Big Data and opportunities,” International Conference on Theory and
Applications of Statistics, Dhaka, Bangladesh, December 2015.

“Opportunities in Mathematical and Statistical Sciences at NSF”,
6th European Congress of Mathematics, Krakow, Poland, July 2012.

“Statistical, Mathematical and Computational Sciences (SMACS):
Invisible Sciences, Impeccable Impact” ISBIS Conference,
Bangkok, June 2012

“Unit roots- a review,” Statistics Day, Reserve Bank of India, Mumbai,
June 2011.

“How to succeed in Statistical Careers- Tips for Young Statisticians”,
ISBIS Conference, Bangkok, June 2011

“Thrive, not just survive,” ISI Convocation Address, Kolkata, India, Feb. 2011.

Lead a delegation of ASA members to China through People to People,
December 2010

Workshop for Young Statisticians, ISBIS, Slovenia, July 2010
Panelist- “The challenges of building a supply of statisticians for future”,

International Statistical Institute Conference, Durban,
South Africa, August 2009

“Unit roots- thirty years and ticking”, IMS Asia Pacific-Rim Meetings,
Seoul, Korea, July 2009

“SIMEX approach for testing unit roots in Stochastic Volatility Models”, International Conference on Forecasting, Merida, Mexico, June 2003.

“Nonlinear mixed effects models”, A Conference on Reliability and Life Testing, Chennai, India, December 2002.

“Unit root tests- Past, Present and Future”- Indian Statistical Institute, New Delhi, India, January 2003

“Testing for Unit roots.” CIMAT, Guanajuato, Mexico, 2000

“Testing for cointegration.” CIMAT, Guanajuato, Mexico, 2000

“Testing for trends in time series models.” CIMAT, Guanajuato, Mexico, 2000

“Estimation of linear mixed effects models in longitudinal studies.”

Brazilian Association of Statistics Meetings, Brasilia, Brazil, 1999

University of Visoca, Visoca, Brazil, 1999

The Mexican Association of Statistics Meetings, Monterrey, Mexico, 1998

Conference on Recent Advances in Statistics, Bernoulli Conference, Calcutta, India, 1997

“A comparison of unit root test criteria.” Presented at a conference titled “Metodos Quantitativos Para Analise De Modelos De Decisao e Previsao,” Brasilia, Brazil, 1995.

Presented also at Ankara University, Ankara, Turkey, 1995

“Testing for deterministic and stochastic trends in correlated series.”

Department of Statistics, University of Sao Paulo, Sao Paulo, Brazil, 1995

Presented also at Ankara University, Ankara, Turkey, 1995

National Meetings:

“Advancing Statistics in Universities: A Dean’s perspective,” JSM 2017, Baltimore, July 2017

“Strengths, Opportunities and Challenges in the Era of BIG Data: An Asian Statistician Perspective,” JSM 2017, Baltimore, July 2017

“ASA Statistical Leadership Course,” JSM 2017, Baltimore, July 2017

“KISS Career Development Workshop on Leadership Skills,” JSM 2016, Chicago,

August 2016

“Best Practices for Recruiting and Retaining students and faculty,” JSM 2016, Chicago, August 2016

“Diversity and Mentoring,” JSM 2016, Chicago, August 2016

“Getting it right with practical ethics,” JSM 2015, Seattle, WA, August 2015.

“The Statistical Research Triangle and Professional Education,” JSM 2014, Boston, MA, August 2014.

“Big Data and opportunities in the International Year of Statistics,” Conference On High-Dimensional Statistics, Temple University, April 2013.

“SMACS: Invisible Sciences with Impeccable Impact”, JSM 2012, San Diego, CA, 2012

“Career tips”, Diversity Workshop, JSM 2012, San Diego, CA, 2012

“Mentoring”, Diversity Workshop, JSM 2012, San Diego, CA 2012

“Celebrating Diversity”, Keynote speaker, Diversity Workshop, ENAR Meetings, San Antonio, TX, 2008

“Unit root tests”, Invited talk. Fourth Biennial International Conference on Statistics, Probability and Related Areas, Northern Illinois University in DeKalb, Illinois, 2002

“Estimation of nonlinear random effects models.” International Biometrics Society Conference, 1997

“Testing for trends in correlated series.” Invited talk. JSM, Chicago, 1996

“Discussion: Testing for variance components.” JSM, Chicago, 1996

“Testing for trend in correlated series.” Joint Statistical Meetings, Toronto, 1994

“Testing for trend stationarity.” Joint Statistical Meetings, Anaheim, 1990

“Testing for unit roots in time series data.” Joint Statistical Meetings, New Orleans, 1988

“Asymptotic distribution of the unit root tests when the process is nearly

stationary.” NBER-NSF Time Series Seminar, Chicago, 1988

“Analysis of growth curve data.” USSES Conference, SAS Institute, Cary, 1987

“Analysis of perennial data.” Invited Talk. Joint Statistical Meeting,
Chicago, 1986

“Comment: Modeling the persistence of conditional variances by Engle and Bollerslev.” Discussion presented at the North American Summer Meeting of the Econometric Society, Durham, 1986

“Comment: On the specification of regression models in seasonal models by Bhargava.” Discussion presented at the North American Summer Meeting of the Econometric Society, Durham, 1986

“Estimation of autoregressive models with ARCH errors.” Joint Statistical Meetings, Las Vegas, 1985

“Mean estimation bias in least squares estimation of an autoregressive process.”
Joint Statistical Meetings, Toronto, 1983
NBER-NSF Seminar on Time Series, Chicago, 1983

“Computing estimators and estimated covariance matrices for the factor model.”
The 50th Anniversary Conference of the Statistics Laboratory, Iowa State University, Ames, 1983

Other Invited Talks:

“Big Data Science,” Washington State University, December 2015.

“Big Data and the World of Statistics,” Portland State University, October 2015.

“The World of Statistics,” ICSA-KISS Joint Statistics Conference, Portland, June 2015.

“Invisible Science, Impeccable Impact.” At two Rotary Clubs, Corvallis, OR, 2014.

“ABCs@NSF,” Department of Statistics, Oregon State University, February 2014.

A large number of talks as the Director of DMS in 2010-2012
(Joint Math Meetings, Joint Statistical Meetings, SIAM annual meetings,
Math Sciences Research Institutes, Joint Policy Board of Mathematics,
AMS Committee on Science Policy, SIAM Committee on Science Policy,

ASA Board Meetings, Various Mathematics and Statistics Departments)

“Big Data = BIG Opportunities”, Day of Data, Brown University, May 2012

“Unit root tests- a review,” George Washington University, September 2011

“Tests for Unit Roots” – Washington Statistical Society, Washington, DC,
November 2007

“Tests for Unit Roots”- University of Kentucky, Lexington, April 2007

Discussant- On a talk given by Robert Engle, Statistics Day, University of
Maryland, May 2005

“Unit roots- Past, Present and Future”- LSU, Baton Rouge, November 2004

“Unit roots- Tests for Stationarity” - UNC, Chapel Hill, April 2003

“Unit root tests- Past, Present and Future”- University of Wisconsin,
Madison, October 2002

“Unit root tests”, Iowa State University, Ames, 2002

“Unit root tests”, North Carolina State University, Raleigh, 2002

“Estimation of nonlinear mixed effects models.” University of North Carolina,
Charlotte, 1999

“Unit roots- past, present and future.” Department of Mathematics, University
of Missouri, Rolla, 1997

“Nonlinear random effects models.” Washington University, St. Louis, 1997

“Nonlinear random effects models.” University of Missouri, Columbia, 1997

“Unit roots- past, present and future.” Department of Economics, Ohio State
University, Columbus, 1996

“Testing for deterministic and stochastic trends in correlated series.”
Department of Biostatistics, University of North Carolina, Chapel Hill,
1995

“Spatial time series models.” Department of Statistics, Iowa State University,
Ames, 1993

“Mixed and random effects models.” University of Maryland, Baltimore County, 1993

“Weighted symmetric estimation.” University of Southern California, Los Angeles, 1993

“Testing for unit roots.” Old Dominion University, Norfolk, 1993

“Testing for trend stationarity versus difference stationarity.” University of Tennessee, Knoxville, 1991

“Testing for unit roots- past, present and future.”
Texas A&M University, College Station, 1991
Southern Methodist University, Dallas, 1991

“Confidence intervals for capability indices.” SEMATECH, Austin, 1991

“A note on sample size determination.” SEMATECH, Austin, 1990

“Asymptotic distribution of the least squares estimator”. Department of Statistics, North Carolina State University, 1987

“Nested analysis of variance with AR errors.” Fish and Wildlife Service, Patuxent Wildlife Research Center, Laurel, 1985
Also, presented to the Consulting Class in the Department of Statistics at North Carolina State University, 1985

“Estimation of AR processes with several unit roots.” Triangle Econometric Workshop, Research Triangle Park, 1985

“Doubly geometric processes.” Department of Statistics, North Carolina State University, 1983

“On the bias adjustment of least squares estimation.” Department of Statistics, North Carolina State University, 1982

Recruiting Talks:

“Life in Academia”, MathFest, October 2002

“Statistics @ NCSU”- Miami University, July 2002

“Panel discussion- VIGRE @ NCSU.” NSF Meeting, Washington, DC, 2001

“Statistics @ NCSU.” – Morehouse College, Atlanta, 2001
Hampton University, Hampton, 2001
Howard University, Washington, DC, 2000

“How to apply to graduate schools.” Panel discussions
(jointly with Dr. J. Hughes-Oliver)
MathFest 2000, Baltimore
MathFest 2001, Orlando

“Statistics and applications.” Panel discussions
(jointly with Dr. J. Hughes-Oliver)
MathFest 2000, Baltimore
MathFest 2001, Orlando.

Date: September 9, 2017