

CURRICULUM VITAE
SNEH GULATI, DEPARTMENT OF STATISTICS

Department of Mathematics and Statistics
Florida International University
Miami, FL 33199
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EDUCATION:

Degree	Institution	Field	Date
Ph.D.	University of South Carolina, Columbia, South Carolina	Statistics	August 1991
Master of Arts	University of South Carolina, Columbia, South Carolina.	Mathematics	December 1988
Bachelor of Arts	St. Stephen's College, Delhi University, Delhi, India	Mathematics	April 1985

FULL TIME ACADEMIC EXPERIENCE/ EMPLOYMENT RECORD AT FIU

Institution	Rank	Department	Dates
Florida International University	Professor	Mathematics and Statistics	August 2009- Present
Florida International University	Vice Chair and Director of Resource Integration	Mathematics and Statistics	March 2024 - Present
Florida International University	Coordinator of Dept. Development and Special Projects	CASE Dean's Office	August 2021-August 2023
Florida International University	Interim Chairperson	Mathematics and Statistics	September 2020 – August 2021
Florida International University	Associate Chairperson	Mathematics and Statistics	August 2009-August 2013
Florida International University	Chairperson	Statistics	August 2005-August 2009

Florida International University	Associate Professor	Statistics	August 1996-Present
Florida International University	Assistant Professor	Statistics	August 1991-July 1996

MEMBERSHIP:

American Statistical Association

PART TIME ACADEMIC EXPERIENCE:

Institution	Position	Dates
University of Technology, Compiègne, France	Invited Professor	Spring 2014
University of South Brittany, Vannes, France	English Professor for Statistics Graduate Students	Fall 2001
Miami Children's Hospital	Instructor for Physicians at the Critical Care Unit	Fall 1992

NON-ACADEMIC EXPERIENCE

Place of Employment	Title	Dates
Public Hurricane Loss Model – Funded by Office of Insurance Regulation	Statistician	July 2000 – June 2005
	Responsible for the statistical component of a computer model to predict annual loss in the State of Florida due to a hurricane	September 2008 – May 2017
		April 2019- Present (for the flood component only)
Naval Research Lab Monterey, CA	Senior Faculty Fellow	June 2019-August 2019, June 2021-August 2021, June 2023-August 2023

PROFESSIONAL HONORS, PRIZES, FELLOWSHIPS

- 1) *Teaching Incentive Program Award*, 1994.
- 2) *Florida International University Faculty Teaching Award*, 1995.

SERVICE

- Service to the Profession:
 - 1) *Associate Editor* for the *Journal of Statistical Computation and Simulation* (April 1997 – January 2006)
 - 2) *President of the South Florida Chapter of the American Statistical Association*, October 1994 - October 1996 and February 2002 – January 2003.
 - 3) *Vice President of the South Florida Chapter of the American Statistical Association*, February 2001 – January 2002.
 - 4) *Secretary of the South Florida Chapter of the American Statistical Association*, December 1999 – February 2001.
 - 5) *Chair-Elect-1995 and Chair-1996 for the Council of Chapters Section of the Joint Program Committee for the American Statistical Association*.
 - 6) *Director of Young Statisticians for the International Indian Statistical Association*.
 - 7) *Refereed Papers for the following Statistical Journals and Organizations:*

Journal of Nonparametric Statistics,
Technometrics,
The American Statistician,
Communications in Statistics: Theory and Methods,
Lifetime Data Analysis,
Sankhya,
Statistical Papers,
Journal of Reliability Engineering,
Journal of Probability and Statistical Science,
Journal of Statistical Computation and Simulation,
Computational Statistical and Data Analysis,

Brazilian Journal of Statistics,
Acta Geophysica,
Bayesian Analysis,
Journal of Statistical Theory and Practice,
Electronic Journal of Statistics,
Colombian Journal of Statistics,
Statistics and Probability Letters,
Advances in Statistics,
Statistical Methods and Applications,
Extremes,
Scholarship for Teaching and Learning in Psychology
Axioms

8) *Served on NSF panel to review grant proposals in Statistics, January 2008, January 2010*

9) *Judged the Undergraduate Data Analysis Contest at the Joint Statistical Meetings in Dallas, 1998*

10) *Wrote a chapter for "Resources for Undergraduate Instructors, Teaching Statistics" MAA Notes Volume, 2000, #52, Thomas L. Moore, Editor*

11) *Secretary, International Indian Statistical Association, August 2008-August 2010.*

12) *Member of Scientific Committee of the Conference on Accelerated Life Testing 2012, held in Rennes, France from June 04-06, 2012.*

13) *Served as a referee for the promotion file of Prof Holgersson, Dept of Economics, at Jonkoping International Business School, Jonkoping, Sweden, March 2012*

14) *Served as a discussant in the thesis defense of Kristoffer Mansson, Department of Economics, Jonkoping International Business School, Jonkoping, Sweden, March 2012*

15) *Member of the Scientific Committee for ICRA 8, (Eighth International Conference on Risk Analysis and Design of Experiments) held at the University of Natural Resources and Life Sciences in Vienna, April 23- 26, 2019*

16) *Member of the Scientific Committee for ICRA 9 (Ninth International Conference on Risk Analysis and Design of Experiments) held at the University of Perugia in Perugia, may25-27, 2022.*

- Community Service and Other Activities

Served on the Florida Commission on Hurricane Loss Projection Methodology August 2000 – September 2008.

The Florida Commission on Hurricane Loss Projection Methodology (FCHLPM) was created during the 1995 Legislative session as an independent panel of experts to evaluate computer models and other recently developed or improved actuarial methodologies for projecting hurricane losses. The Legislature specifically determined that reliable projections of hurricane losses are necessary to assure that rates for residential property insurance are neither excessive nor inadequate, and that computer modeling has made it possible to improve upon the accuracy of hurricane loss projections.

The Commission meets four times a year in Tallahassee. Three of the four meetings are scheduled for two days, while one is a one day meeting. In July of each year, the commission meets to develop standards for insurance models for the upcoming year. In September of the same year, the commission meets to vote on the standards. In March, the commission meets to review model submissions and then finally in May they meet to determine acceptability of the loss models.

Commission approval has become a benchmark for hurricane loss models all over the country. A hurricane loss model has no credibility if it is not approved by the commission. Commissioner Gallagher has reappointed the commission.

Have also served as chair of the commission from April 2001 till April 2004, during which time I presided over all the meetings, notified the modeling companies if their model was deemed acceptable or not.

- University Service:

Departmental

Vice Chair and Director of Resource Integration, Mathematics and Statistics (March 2024 – Present)

Interim Chair, Department of Mathematics and Statistics (Sept 2020 – August 2021)

Associate Chair, Department of Mathematics and Statistics (August 2009- August 2013)

Chair of Department of Statistics (August 2005- August 2009)

Colloquium Committee (1991 - 1992)

Curriculum Committee (1991 – 1994, 2004-2005, 2007-202, 2022-Present)

Graduate Committee (1993 – 1994, 1997 – April 2001, April 2004-2005)

Chair of Curriculum Committee (1994 - July 1996)

Syllabus Committee (1993 - 1999), August 2002 – April 2005.

Scheduling Committee (2007 – 2020)

Student Recruitment Committee (July 1998 – April 2001), August 2002 – August 2005)

Steering Committee (2014-2020)
Human Resources Committee (2014- 2020)
Recruitment Committee (2014 -2020)
Chair of Recruitment Committee (2018-2020)
Colloquium Director, Division of Statistics (2019-2023)
Human Resources Committee, Division of Statistics, 2022-Present

College

Undergraduate Council (January 1998)
Procedural Committee (Spring 1997)
Curriculum Committee, College of Arts and Sciences (CAS), 1993 - 1994.
Strategic Planning Committee of the Dean, Spring 2008, Spring 2018
Tenure and Promotion Committee, CAS, 2008-2009
Steering Committee, CAS and CASE 2006-2009, 2012-2013, 2015-2017, 2020-2024
Chair, College Assembly, CAS 2009-2011
Vice Chair, College Assembly, CAS 2011-2012, CASE: 2018- 2020
Elections Committee, CAS: 2012-2016
Served on the Dean's Strategic Planning Committee: 2017-2018
Oversight Committee: 2022- 2024

University

Served on a panel to Evaluate Files of Distinguished Professors, 2018 and 2019
Served on a panel to interview candidates for McNair Program, 2008
Served on a Task Force to evaluate role of chairs, Fall 2007-Spring 2008
University Faculty Senate (Fall 1996 – April 2001), August 2003 - 2008 , 2012-2013, 2014-2017, 2018-Spring 2019, 2020-Present
Parliamentarian, FIU faculty Senate: Spring 2022- Summer 2023
Interim Vice Chair, FIU Faculty Senate. Fall 2023- 2024
Vice Chair, Faculty Senate. Fall 2024 - Present
Sabbatical Leave Committee – 2014-2016
Served as a mentor for two students on McNair Program, 2005 and 2007
Budget Committee (August 2000 – April 2001)
Taught a Short Statistics Course at the World Meteorological Conference held at the Kovens Center in March/ April 1996.
QEP Steering Committee 2021-Present
Co-Chair Data Science Badge, QEP Initiative, FIU, 2022-Present

Teaching Experience at FIU

1. STA 2023: *Business Statistics*
2. STA 2122: *Introduction to Statistics I*
3. STA 3033: *Introduction to Probability and Statistics for Computer Science*,
4. STA 3111: *Statistics I*

5. STA 3112: *Statistics II*
6. STA 3123: *Introduction to Statistics II*
7. STA 3163: *Statistical Methods I*
8. STA 3164: *Statistical Methods II*
9. STA 3060L: *Statistical Methods Laboratory*
10. STA 4234/ 5236: *Regression Analysis*
11. STA 4321: *Mathematical Statistics, I*
12. STA 4322: *Mathematical Statistics, II*
13. STA 4664/5666 *Quality Control*
13. STA 4502/5505: *Nonparametric Methods*
14. STA 6166: *Statistical Methods in Research,*
15. STA 6176: *Biostatistics*
16. STA 6244 *Data Analysis I*
17. STA 6247 *Data Analysis II*
18. STA 7707: *Applied Multivariate Analysis*
19. STA 7708: *Applied Multivariate Analysis II*
20. IDH 1001: *Origin of Ideas and Ideas of Origin I**
21. IDH 1002: *Origin of Ideas and Ideas of Origin I**
22. STA 4202/5206: *Design of Experiments*
23. STA 6326 – *Mathematical Statistics I*
24. STA 6327 *Mathematical Statistics, II.*

* Interdisciplinary Courses taught for the honors college

b. Master's Students

- Michael Berger defended thesis September 04, 1998.
- Norma Piloto, "Goodness of Fit or the Exponential Distribution for Middle Censored Data", defended April 2010.
- Antonio Hudson, "Sensitivity and Uncertainty Analysis for the Public Hurricane Loss Projection Model", defended June 2012.
- Fan Yang, "Tail Risk Analysis and Extreme Quantile Estimation for Catastrophic Events", defended January 2012.
- Victoria Oxenyuk, "Distribution Fits for Various Parameters in the Hurricane Model", defended March 2014.
- Sergio Perez, defended Summer 2014.
- Yelen Nunez, "Statistical Models for Predicting College Success" defended December 2013
- Karm Erwin Jean, defended Fall 2015
- John Tenenholtz defended Fall 2017
- Parker Chernoff: Spring 2018
- Sultana Mubarika Chowdhary (co-advisor with Dr. Florence George), Fall 2020 – Spring 2022

RESEARCH

RESEARCH INTERESTS:

Nonparametric Estimation, Reliability and Survival Analysis, Goodness of Fit, Catastrophe Modeling

PUBLICATIONS

BOOKS

Parametric and Nonparametric Inference From Record-Breaking Data, 2003, **Sneh Gulati** and W.J. Padgett, **Lecture Notes in Statistics**, Vol. 172, Springer Verlag.

Theory and Practice of Risk Assessment – ICRA 5, Tomar, Portugal, 2015, **Edited Book**, editors: edited by Kitsos, C. P., Oliveira, T.A., Rigas, A. and **Gulati, S**, Springer Proceedings in Mathematics and Statistics.

PUBLICATIONS IN PROFESSIONAL JOURNALS:

Articles:

- 1) *Analysis of Mental Health and Drug Use in the Top 21 Most Populated U.S. States.* Journal of Biostatistics and Epidemiology. Castillo G, Gulati S, Kibria BMG (2023). 9(3):351-362.
- 2) Impact of Globalization and Covid-19 on the Empowerment of Women: A Case Study of Chikan Artisans of Lucknow. Anjana Mishra and Sneh Gulati. In the Proceedings of the 81st Annual Midwest Political Science Association Conference Held in Chicago; April 4 2024 through April 7, 2024.
- 3) Factors Associated with Powerful Hurricanes in the Atlantic. George, F., Gulati, S., Simon, A., Kibria, B.M.G. (2023). In: Kitsos, C.P., Oliveira, T.A., Pierri, F., Restaino, M. (eds) **Statistical Modelling and Risk Analysis. ICRA 2022. Springer Proceedings in Mathematics & Statistics**, vol 430. 81-89. Springer, Cham. https://doi.org/10.1007/978-3-031-39864-3_7
- 4) *Study of Childhood Abuse and Anxiety: An Application of Logistic Regression* (2023). Journal of Biostatistics and Epidemiology. Sultana Mubarika Chowdhary, Florence George and Sneh Gulati. 8(3):314-327.
- 5) *Application of Logistic Regression on Heart Disease Data and a Review of Some Standardization Methods* (2022). Sultana Mubarika Chowdhary, Florence George and Sneh Gulati. International Journal of Statistics and Probability, 11(5).

- 6) *Economic Value of Tropical Cyclone Conditions of Readiness (2021)*: Sneh Gulati and Charles R. Sampson. Natural Hazards, 106, 1687-1700
- 7) *Some Multiple Regression Models for the Number of COVID-19 cases and Deaths in the United States (2021)*: John Tenenholtz, Florence George and Sneh Gulati. International Journal of Statistics and Probability, 10(1):pp 28-39.
- 8) *Analysis of Hurricane Extremes and Record Values in the Atlantic (2019)*: Sneh Gulati, Florence George and B.M. Golam Kibria. Communications in Statistics: Case Studies and Data Analysis. (0), 1-10
- 9) Probable Maximum Loss for the Florida Public Hurricane Loss Model: A Comparison (2017). Gulati, Sneh, George, Florence, Kibria, Golam, Hamid, Shahid, Cocke, Steven, Pinelli, Jean-Paul, ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, [Volume 3, Issue 4 - December 2017](#)
- 10) *Estimating extreme losses for the Florida Public Hurricane Model—part II (2017)*. Gulati, Sneh, Florence George, and Shahid Hamid. Theoretical and Applied Climatology (2017): 1-12.
- 11) *Distribution Fits for Various Hurricane Parameters –Victoria Oxenyuk , BM Golam Kibria, Sneh Gulati and Shahid Hamid (2017)*, Journal of Modern Applied Statistical Methods, 16(1), 481-497.
- 12) *The influence of costing uncertainty on the projection of hurricane induced losses*, Nicholas Miller, Jean-Paul Pinelli, Kurtis Gurley and Sneh Gulati (2016). 4th American Association for Wind Engineering Workshop, Miami, Florida, USA, August 14-16, 2016
- 13) *Some Estimation Techniques for Reliability and Survival Analysis, Inmaculada Barranco-Chamorro and Sneh Gulati; in “Theory and Practice of Risk Assessment 5th International Conference on Risk Assessment (ICRA5), Tomar, Portugal 2013”, eds; Christos Kitsos, Teresa Oliveira , Alex Rigas and Sneh Gulati*
- 14) a) *Estimating Extreme Losses for the Public Hurricane Loss Model (2014) , Sneh Gulati, Florence George, Fan Yang, B.M. Golam Kibria and Shahid Hamid*, Sri Lankan Journal of Statistics, vol 5, 247-271
 b) *Estimation of Extreme Quantiles of Catastrophe Losses through Some Extreme Value Distributions. Fan Yang, B.M. Golam Kibria and Sneh Gulati. JSM 2011 Proceedings*
- 15) *A Universal Goodness of Fit Based on Regression Techniques. (2013) Florence George and Sneh Gulati. in Statistical Models and Methods for Reliability and Survival Analysis; eds; Couallier, Vincent, Gerville-Reache, Leo, Huber, Catherine, Limnios, Nikolaos and Mesbah, Mounir, published by Wiley, pp. 21-33.*

- 16) *Goodness of Fit for the Rayleigh and the Laplace Distributions* (2011). **Sneh Gulati**, International journal of Applied Mathematics and Statistics, 24, pp 74-85
- 17) *Predicting Losses of Residential Structures in the State of Florida by the Public Hurricane Loss Evaluation Model (with discussion)* (2010) Shahid Hamid, B. M. Golam Kibria, **Sneh Gulati**, Mark Powell, Bachir Annane, Steve Cocke, Jean Paul Pinelli, Kurt Gurley and Shu-Ching Chen, Statistical Methodology, 7(5) pp. 552-573
- 18) *Upper Tolerance Intervals for Exponential Distribution based on Grouped Data* (2009) D. T. Shirke, **Sneh Gulati** and R. R. Kumbar, International Journal of Intelligent Technology and Applied Statistics, Vol.2, No.2 (2009) pp.1-19
- 19) *Goodness of Fit Tests for the Logistic Distribution*, (2009) **Sneh Gulati** and Samuel Shapiro, Journal of Statistical Theory and Practice, 3. 567-576
- 20) *Goodness of Fit Tests for the Pareto Distribution*, **Sneh Gulati** and Samuel Shapiro, in **Statistical Models and Methods for Biomedical and Technical Systems** published by Birkhauser, Boston (Vonta, F., Nikulin, M., Limnios, N. and Huber, C. editors), pp 263-277.
- 21) *Testing for Scale Families Using Total Variation Distance*, **Sneh Gulati** and Jie Mi, Journal of Statistical Computation and Simulation (2006), 9, 773-792.
- 22) *Goodness of Fit of a Joint Event Model for Event Time and Nonignorable Missing Longitudinal Quality of Life Data*, **Sneh Gulati** and Mounir Mesbah, in "Probability, Statistics and Modeling in Public Health", (Editors: Daniel Commenges, Catherine Huber, and Mikhail Nikulin), 2006, XXIV, Springer.
- 23) *State of Florida hurricane loss projection model: Atmospheric science component*, Powell, M. D., G. Soukup, S. Cocke, **S. Gulati**, N. Morisseau-Leroy, S. Hamid, N. Dorst, and L. Axe, 2005, J.Wind Engineer. and Indust. Aerodyn., 93, 651-674
- 24) *Hurricane loss prediction: model development, results, and validation*, Pinelli, J.P., Subramanian, C., Murphree, J., Gurley, K., Cope, A., **Gulati, S.**, Simiu, E., and Hamid, S. (2005). ICOSSAR.
- 25) *Florida public hurricane loss projection vulnerability model*, Pinelli, J.P., Subramanian, C., Murphree, J., Gurley, K., Hamid, S., and Gulati, S. (2005). 10th American Conference on Wind Engineering
- 26) *Smooth Nonparametric Estimation of the Distribution Function from Balanced Ranked Set Samples*, **Sneh Gulati**, Environmetrics (2004), 15, 529-539.
- 27) *A web-based distributed system for hurricane occurrence simulation*, Shu-Ching Chen, **Sneh Gulati**, Shahid Hamid, Xin Huang, Lin Luo, Nirva Morisseau Leroy, Mark D. Powell, Chengjun Zhan and Chengcui Zhang, Software - Practice & Experience (2004), volume 34 (6), 549-571.

- 28) *A Probabilistic Model of Damage to Residential Structures from Hurricane Winds*, Cope, A., Gurley, K., Pinelli, J.P., Murphree, J., Subramanian, C., **Gulati, S.** and Hamid, S. (2004). ASCE joint specialty conference on probabilistic mechanics and structural reliability.
- 29) *Hurricane loss estimation: model development, results and validation*, Pinelli, J.P., Murphree, J., Subramanian, C., Zhang, L., Gurley, K., Cope, A., Hamid, S., and **Gulati, S.** (2004). Joint International Conference on Probabilistic Safety Assessment and Management and the European Safety and Reliability Conference
- 30) *A Three-Tier System Architecture Design and Development for Hurricane Occurrence Simulation*, Shu-Ching Chen, **Sneh Gulati**, Shahid Hamid, Xin Huang, Lin Luo, Nirva Morisseau-Leroy, Mark Powell, Chengjun Zhan, and Chengcui Zhang, Proceedings of the IEEE, International Conference on Information Technology: Research and Education (ITRE 2003), pp. 113-117, August 10-13, 2003, Newark, New Jersey, USA, August 10-13.
- 31) *Information Reuse and System Integration in the Development of a Hurricane Simulation System*, Shu-Ching Chen, Shahid Hamid, **Sneh Gulati**, Guo Chen, Xin Huang, Lin Luo, Chengjun Zhan, Chengcui Zhang, Proceedings of the 2003 IEEE International Conference on Information Reuse and Integration (IRI '2003), pp. 535-542, October 27-29 2003, Las Vegas, NV.
- 32) *Information Reuse and System Integration in the Development of a Hurricane Simulation System*, Chen, S.-C., S. Hamid, S. Gulati, G. Chen, X. Huang, L. Luo, C. Zhan, and C. Zhang (2003). Proceedings of the 2003 IEEE International Conference on Information Reuse and Integration (IRI'2003), October 27-29, 2003, Las Vegas, Nevada, USA, pp. 535-542.
- 33) *Classification of Structural Models for Wind Damage Prediction in Florida*, Jean-Paul Pinelli, Josh Murphree, Chelakara Subramanian, Kurt Gurley, Anne Cope, Shahid Hamid, and **Sneh Gulati**, Proceedings of 11th International Conference in Wind Engineering, Lubbock Texas, June 2003.
- 34) a) *Goodness of Fit Statistics for the Exponential Distribution when the Data are grouped*, **Sneh Gulati** and Jordan Neus, in Communications in Statistics, (2003), Vol. 32, # 3 pp. 681-700
 b) *Goodness of Fit Statistics for the Exponential Distribution when the Data are grouped*, a shorter version than 1a) of article has appeared in Goodness of Fit Tests and Validity of Models, editors C. Huber, N. Balakrishnan, M. Mesbah and M. Nikulin, Birkhauser, 2001, pp. 113-122.
- 35) *Comparison of Some Reduced-Bias Kernel Density Estimators*, **Sneh Gulati**, J.W. Kuhn and W.J. Padgett, Mathematical Sciences Research, (2001), 5(4), 29-48.
- 36) *Record-Breaking Data: A Parametric Comparison of the Inverse and Random Sampling Schemes* Michael Berger and **Sneh Gulati**, Journal of Statistical Computation and Simulation, (2001), 69(3), 225-238.
- 37) *Estimating the Mean of an Exponential Distribution from Grouped Observations*, Samuel Shapiro and **Sneh Gulati**, Journal of Quality Technology (1998), 30(2), pp. 107-118.

- 38) *Families of Smooth Confidence Bands for the Survival Function under the General Random Censorship Model*, **Sneh Gulati** and W.J. Padgett, Lifetime Data Analysis, (1996), pp. 349-362.
- 39) *Selecting Failure Monitoring Times for an Exponential Life Distribution*, Samuel Shapiro and **Sneh Gulati**, Journal of Quality Technology, (1996), pp. 429-438.
- 40) *Nonparametric Function Estimation from Inversely Sampled Record-Breaking Data*, **Sneh Gulati** and W.J. Padgett, Canadian Journal of Statistics, (1995), pp. 359-368.
- 41) *Estimation of Nonlinear Statistical Functions from Record-Breaking Data: A Review*, **Sneh Gulati** and W.J. Padgett, Nonlinear Times Digest, 1, (1994), pp. 97-112.
- 42) *Smooth Nonparametric Estimation of the Hazard and the Hazard Rate Function from Record-Breaking Data*, **Sneh Gulati** and W.J. Padgett, Journal of Statistical Planning and Inference, 42, (1994), pp. 331-341.
- 43) *Nonparametric Quantile Estimation from Record-Breaking Data*, **Sneh Gulati** and W.J. Padgett, Australian Journal of Statistics, 36, (1994), pp. 211-223.
- 44) *Smooth Nonparametric Estimation of the Density and Distribution Function from Record-Breaking Data*, **Sneh Gulati** and W.J. Padgett, Communications in Statistics - Theory and Methods, 23, (1994) pp. 1259-1274.
- 45) *On Bounds for the Moments of the Brittle Fracture Distribution*, (in Comments, Conjectures and Conclusions Column, I.J. Good, Editor), Journal of Statistical Computation and Simulation, 47, (1993), pp. 105-108, **Sneh Gulati**, S.D. Durham and W.J. Padgett.
- 46) *Kernel Density Estimation from Record-Breaking Data* (with discussion by referee, Saul Blumenthal), **Sneh Gulati** and W.J. Padgett, in Survival Analysis: State of the Art (NATO Advanced Workshop on Survival Analysis and Related Topics), J. Klein and P. Goel, Eds. Kluwer Academic Publishers, Amsterdam (1992), pp. 197-210

PRESENTED PAPERS. LECTURES, EXHIBITIONS AND PERFORMANCES

- 1) *Impact of Globalization and Covid-19 on the Empowerment of Women: A Case Study of Chikan Artisans of Lucknow*. Talk Presented Jointly by Drs Anjana Mishra and Sneh Gulati at the 81st Annual Midwest Political Science Association Conference Held in Chicago; April 4 2024 through April 7, 2024
- 2) *Some Factors Associated with Powerful Hurricanes in the Atlantic*, (**Florence George**, **Sneh Gulati**, **Anu Simon**, **BM Golam Kibria**) *Economic Value of Skilled Tropical Cyclone Conditions of Readiness*, Invited Talk at ICRA 9 (International Conference on Risk analysis) Held in Perugia, Italy, May 25-27, 2022

- 3) *Economic Value of Skilled Tropical Cyclone Conditions of Readiness*, Contributed Talk at the 34th Conference on Hurricanes and Tropical Meteorology, Virtual Meeting May10-14, 2021.
- 4) *Analysis of Extremes for Hurricane Wind Speeds and Residential Losses*, Invited Talk at the 26th Conference on Probability and Statistics at AMS 100, January 12-16, 2020, Boston , MA.
- 5) *Analysis of Hurricane Extremes and record values in the Atlantic*: Invited Talk at the 8th International Conference on Risk Analysis and Biostatistics, Vienna, April 23-26, 2019.
- 6) *Probable Maximum Loss for the Florida Public Hurricane Loss Model: A Summary and a Comparison*. Invited Talk at the 7th International Conference on Risk Analysis, Chicago Illinois, May3-5, 2017
- 7) *Probable Maximum Loss: A comparison*. Invited Talk at ODRS 2016 (Ordered Data and Their Applications in Reliability and Survival Analysis: An International Conference in Honor of N. Balakrishnan for his 60th Birthday), McMaster University, August 8 – August 10, 2016.
- 8) *Statistical Methods and Models in Risk Analysis: Recent Results and Applications*. Invited Talk at the Institute of Mathematics, University of Sevilla, June 29, 2015
- 9) *Distribution Fits for Various Hurricane Parameters*. Invited Talk at the Eight International Workshop on Simulation held at the University of Vienna, Sept 21-25, 2015.
- 10) *Hurricanes in the Atlantic – Predicting the Next Record Storm*, **Invited Colloquium Talk, April 22, 2014**, Technological University of Compiegne, France
- 11) *Parametric and Nonparametric Techniques to Estimate the PML of the Public Hurricane Loss Model*, **Invited Colloquium Talk, April 18, 2014**, INSA, Rennes, France, April
- 12) *A General Goodness of Fit Test Based on Regression Techniques*, **Invited Colloquium Talk** at Carleton University, October 25, 2013
- 13) *Estimating the Quantiles of the Loss Distribution for the Public Hurricane Loss Model*, . **Invited Speaker**, 5th International Conference on Risk Assessment (ICRA5) held at Tomar, Portugal, May 2013
- 14) *A Universal Goodness of Fit Test Based on Regression Techniques*, **Invited Speaker**, International Conference on Models and Methods for Reliability and Survival Analysis and their Validation (S2MRSA) July 2102, Bordeaux, France
- 15) *Goodness of Fit for the Rayleigh and the Laplace Distributions (2011)*. **Invited Speaker**, International Conference on Risk Analysis (ICRA 4) May 26-29, 2011, Limassol, Cyprus.

- 16) *Goodness of Fit Testing* and Model Validation in the Public Hurricane Model*** (*joint work with Samuel Shapiro, ** joint work with Hamid, Shahid; Kibria, B.M.G.; et. al.) **Invited Presentation** at UM Dept of Biostatistics, October 13, 2011
- 17) *Uncertainty Analysis in the Florida Public Hurricane Loss Model*, (joint work with Hamid, S, Kibria, B.M.G, et. al.) **Invited Presentation** at the SIAM Conference on Uncertainty Quantification, April 2-5, 2012, Raleigh North Carolina.
- 18) *Same topic as above was also presented as a poster at the SAMSI workshop on uncertainty* held at SAMSI North Carolina, September 7-10, 2011.
- 19) *Predicting Residential Losses in Florida by the Public Model*, **Contributed Talk**, "International Workshop on Applied Probability", held at University Carlos III de Madrid, Colmenjaro, Spain, July 5-8, 2010.
- 20) *Testing for the Logistic and the Pareto Distribution*, **Invited Speaker**, "Joint Statistical Meetings" held at Denver, Colorado, August 3-7, 2008.
- 21) *Records and Hurricanes*, **Invited Speaker**, "Nonparametric Statistics and Mixture Models, Past Present and Future", Held at Penn State University, Department of Statistics, May 23-24, 2008.
- 22) *Testing for Semi-Markov Processes*, **Invited Speaker**, "Second International Conference on Cancer Risk Assessment held in Santorini, Greece, May 25-27, 2007.
- 23) *Goodness of Fit Tests for the Pareto Distribution*, **Invited Speaker**, "Biostat 2006: Statistical Models for Biomedical and technical Systems", held at Limassol, Cyprus, 29-31 May, 2006.
- 24) *Inference from Record-Breaking Data*, **Invited Speaker**, "International Conference on Applied Probability", University of Connecticut, May 15-18, 2006.
- 25) *Comparison of Some Reduced Bias Kernel Density Estimators*, **Invited Speaker**, "Fifth Biennial International Conference on Statistics, Probability and Related Areas", held May 14-May16, 2004 at the University of Georgia, Athens, Georgia.
- 26) *Smooth Nonparametric Estimation of the Distribution Function from Balanced Ranked Set Samples*, **Invited Speaker** at the Workshop on "Environment and Health Related Quality of Life: Statistical Perspectives" held Nov 7-9, 2002 at University of South Brittany, Vannes, France
- 27) *Goodness of Fit of a Joint Model for Event Time and Nonignorable Missing Longitudinal Quality of Life Data*, **Invited Speaker** at the IISA Fourth Biennial International Conference held June 14-16, 2002 at Northern Illinois University, Dekalb, Illinois. Another version of the talk was presented as an **Invited Speaker** at a Special Contributed Session at the Joint Statistical Meetings held in New York City, August 11-15, 2002

- 28) *Inference from Record-Breaking Data – A Review*: **Invited Colloquium Speaker** at the University of South Brittany, Vannes, France on 26 October, 2001.
- 29) *On Reduced Bias Kernel Estimators from Complete and Censored Samples*: **Invited Colloquium Speaker** at the European Seminar at University of Paris, V on 16 November 2001.
- 30) *Nonparametric Inference from Record-Breaking Data: A Review*, **Invited Speaker** at the SMOD (Statistical Methods for Analyzing Olympic Data and Records) Workshop held September 5 – 6, 2001 at University of Bordeaux 2, Bordeaux, France.
- 31) *Goodness of Fit Statistics for the Exponential Distribution when the Data are Grouped*, **Invited Speaker** at the "International Workshop GOF2000 on Goodness-of-fit Tests and validity of Models" held May 29 – 31, 2000 at the Universite Rene-Descartes, V in Paris.
- 32) *Record-Breaking Data: A Comparison of the Random Sampling and the Inverse Sampling Schemes*, **Invited Speaker** "Statistics: Reflections on the Past and Visions for the Future" held March 16-19, 2000 at University of Texas in San Antonio.
- 33) *Reduced-Bias Kernel Density Estimators Based on Randomly Right-Censored Data*, **Invited Speaker** at the "International Conference on Combinatorics, Statistics, Pattern Recognition and Related Areas" held at the University of Mysore, Mysore, India, Dec 28 - Dec 30, 1998.
- 34) *Estimating the Mean of the Exponential Distribution from Grouped Observations*, Seminar Talk at the Department of Statistics, Florida International University, Presented on January 16, 1998.
- 35) *Smooth Nonparametric Estimation of the Distribution Function from Balanced Ranked Set Samples*, **Invited Speaker** at the "International Conference on Combinatorics, Information Theory and Statistics", held at University of Southern Maine, July 18 - July 20, 1997.
- 36) *Families of Smooth Confidence Bands for the Survival Function under the General Random Censorship Model*, **Invited Presentation** at "Statistical research in the 21st Century" held in Montreal, Nov. 29-30, 1996.
- 37) *Families of Smooth Confidence Bands for the Survival Function under the General Random Censorship Model*, **Invited Colloquium Speaker** at the Department of Statistics, Oklahoma State University, Stillwater. Presented on November 17, 1995.
- 38) *Smooth Nonparametric Function Estimation from Inversely Sampled Record-Breaking Data*, **Contributed Talk** at the 1994 Joint Statistical Meetings, August 13-18, Toronto.
- 39) *Smooth Nonparametric Estimation of the Hazard and the Hazard Rate Functions from Record-Breaking Data*, **Contributed Talk** at the 1992 Joint Statistical Meetings, August 9 - 13, Boston.

- 40) *Moments of the Brittle Fracture Distribution*. **Colloquium Talk** at the Department of Statistics, Florida International University, November, 1991.
- 41) *Kernel Density Estimation from Record-Breaking Data*. Paper presented by co-author Dr. W.J. Padgett at NATO Advanced Workshop on Survival Analysis and Related Topics, Columbus, Ohio, June 23-28, 1991. (I did not attend the conference).
- 42) *Smooth Nonparametric Estimation of the Density and Distribution Function from Record-Breaking Data*, Contributed Talk at "Statistics '91 Canada", Third Conference in Applied Statistics (May 23-25, 1991) at Concordia University, Montreal.

GRANT PROPOSALS:

- 1) Faculty Development Award (Dean's office, College of Arts and Sciences, Florida International University), Fall 1991.
- 2) FIU Foundation Research Award (Provost's Office, Florida International University), Summer 1992.
- 3) "Enhancement of H*Wind Operations"

Source: National Oceanic and Atmospheric Administration (NOAA) Joint Hurricane Testbed (JHT) Program. – Applied in 2003. NOT FUNDED

Investigators: Dr. Mark Powell, NOAA and Sneh Gulati

- 4) Prediction of Tropical Cyclogenesis Using Regularized Discriminant Analysis.,

Source: National Science Foundation

Investigators: Donald Richards and Sneh Gulati

- 5) MwaMTa, the Tanzania Network Project,

Source: NIH.

Investigators: PI Dr. Mark Williams, Co PIs and Investigators: Allan Wells, Anne Bowen, Kayo Fujimoto, Kilonzo Gad, Michael Roass, Rongsong Liu, Sneh Gulati

- 6) Integrated Big Data Curriculum for Sustainable Development

Source: NSF

Investigators: PI: Sitharama Iyengar, School of Computer Sciences, FIU, Co-PI(s): Sneh Gulati, Yimin Zhu, Shu-Ching Chen, Nagarajan Prabakar

- 7) A data analytic examination of recommendation letters for male and female tenure-track candidates in philosophy

Source: NSF

Investigators: PI: Sean Allen Hermanson, Dept of Philosophy, Florida International University, Co-PI; Sneh Gulati, Co-investigator: Guy Dove

- 8) Joint Applied Math and Stats scholarships at FIU (JAMS@FIU)

Source: NSF. Funded for \$150,0000

Investigators: Svetlana Roudenko (PI), Florence George, Hakima Bessaih and Anna Maria Fino.