

Curriculum Vitae Raid W. Amin

Work Address:

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The University of West Florida
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Link: <http://uwf.edu/cse/departments/mathematics-and-statistics/our-faculty/faculty-profiles/dr-raid-amin.html>

RESEARCH AND GENERAL INTERESTS

Statistical Consulting, Statistical Education, Statistical Quality Control, Regression Analysis, Experimental Design, Spatial Epidemiology, Cancer Surveillance, Human-Shark Interaction, Environmental Statistics, Alzheimer's Disease.

EDUCATION

Ph.D. Statistics, Department of Statistics, Virginia Polytechnic Institute and State University, Blacksburg, Virginia. July 1987.

M.S. Statistics, Department of Statistics, Virginia Polytechnic Institute and State University, Blacksburg, Virginia. March 1983.

B.S. Statistics, Department of Statistics, Baghdad University, Iraq. June 1979.

PROFESSIONAL EMPLOYMENT

- *Professor.* University of West Florida. Faculty member, Department of Mathematics and Statistics (August 1995-present).
- *Associate Professor.* University of West Florida. Faculty member, Department of Mathematics and Statistics (August 1991-July 1995).
- *Assistant Professor.* University of West Florida. Faculty member, Department of Mathematics and Statistics (August 1987-July 1991).

COURSES TAUGHT AT UWF

STA 5206 : Analysis of Variance

STA 6507 : Nonparametric Statistics

STA 6666 : Statistical Quality Control I

STA 6667 : Statistical Quality Control II

STA 5166 : Special Topics in Statistics

STA 6247(now STA6707): Multivariate Methods

STA 5207 : Regression Analysis
STA6235: Modeling in Regression
STA 6990 : Topics in Regression
STA 6256 : Design of Experiments
STA 6246 Design and Analysis of Experiments
STA 5136 : Applied Statistics for the MBA
STA 2023 : Elements of Statistics
STA 3162C: Applied Statistics (with SAS Lab)
STA 3134 : Quantitative Methods for Business
STA 1013 : Seeing Through Statistics
STA 4173: Biostatistics
STA5176: Statistical Modeling
STA 4990/STA4664: Introduction to Quality Control
MAP 6990 Topics in Mathematics and Statistics: Cluster Analysis with SaTScan
PHC 5050 Biostatistics for Public Health [fully online]
STA 6912 Statistics Research I
STA 6913 Statistics Research II

SUPERVISION OF MASTER'S THESES IN STATISTICS:

1. Robert Baxley, Jr. : A Simulation Study of Statistical Control Algorithms for Drifting Processes. Defended in February 1990.
2. Alice Searcy : A Nonparametric Exponentially Weighted Moving Average Process Control Procedure based on Ranks. Defended in March 1990. (published).
3. Richard Miller : A Robustness Study of Shewhart \bar{X} -Charts with Variable Sampling Intervals. (published).
4. Oskar Widmaier : A Sign Control Chart with Variable Sampling Intervals and Curtailment. (August 1994). (published)
5. Werner Besenfelder : Some Nonparametric Control Charts for Process Variability. (August 1995).
6. Ping Fang : A Robustness Study of CUSUM Charts for the Range. (July 1995).
7. Andreas Goelz: Shewhart and CUSUM Sign Charts for Variability. (August 1997).
8. Gabriele Sattler : Curtailed Sampling Plans Applied to Some Nonparametric Control Charts. (August 1997).
9. Stefan Boehm : Estimation and Monitoring of Capability Indices through the EWMA. (July 1998)

10. Christian Kopf : The Effect of Autocorrelation on Capability Indices. (July 1998).
11. Matthias Wilde : A New Two-Sided CUSUM Chart for Variability (July 1999).
(published)
12. Claudia Muench : The Effect of Gamma-distributed Data on Process Capability Indices . (July 1999).
13. Michaela Glasbrenner : The MaxMin EWMA Control Chart with Variable Sampling Intervals. (July 1999)
14. Joern Philipp : Multivariate Control Charts and Variability. (August 2001).
15. Guenter Ebhard : Some Properties of Multivariate Control Charts. (August 2001).
16. Oliver Bengel: Multivariate Control Charts for Location and Variability.
(August 2004) (published)
17. Markus Schierle: A Comparison of Multivariate Control Charts for Autocorrelation.
(July 2005)
18. Fabian Niebling: Modified Control Charts for Multivariate Autocorrelated Data.
(July 2005)
19. Daniel Staedel: Statistical Analysis of Cancer Rates in Florida (August 2007)
20. Alexander Bohnert: Statistical Clustering of Pediatric Cancer Rates in Florida (July 2009) (published)

Supervision of Research Projects (STA6913)

2019

1. A purely spatial and also geographic variations in temporal trends study of cardiovascular disease outcomes in the contiguous USA and associated risk factors. (Kora Morales)
2. A spatial study of risk factors associated with maternity related mortality and incidence of such disorders in the USA. (Eunice Clark)
3. A study of purely spatial and also geographic variations in temporal trends for liver cancer (mortality and incidence) for 2000-2014 and associated risk factors. (Charlotte Bongiorno)
4. A study of purely spatial and also geographic variations in temporal trends for cervical cancer (mortality and incidence) for 2000-2014 and associated risk factors. (Yukika Takayma)

5. A study of purely spatial and also geographic variations in temporal trends for breast cancer (mortality and incidence) and associations with arsenic. (Lars Bringewatt)
6. A study of purely spatial and also geographic variations in temporal trends for thyroid cancer (mortality and incidence). (Emmanuel Ndechihiro)
7. A study of purely spatial and also geographic variations in temporal trends for oral and pharynx cancer (mortality and incidence) for 2000-2014 and associated risk factors. (Bradly Rivera)
8. A study of purely spatial and also geographic variations in temporal trends for prostate cancer (mortality and incidence) for 2000-2014 and associated risk factors. (Regina Eckhardt)
9. A study of purely spatial and also geographic variations in temporal trends for colorectal cancer (mortality and incidence) for 2000-2014 and associated risk factors. (Philip Hurst)
10. A spatial and space-time analysis of proximity to nuclear power plants and breast cancer mortality in the Contiguous United States: 2000-2014. (Emily Quintana)

2018

11. A Spatial Study of Upward Mobility in the USA (John McAllister)
12. Spatial Patterns of some Cancer Types and Associated Risk Factors in the USA. (Tyler Smith)
13. Clusters of Cancers and Association with Arsenic in Well Water in the USA. (Bunpen Stafford) (**published**)
14. Clusters of Cardiovascular Disease and Cancers and associated Life Expectancy. (Julia Steinmetz) (**published**)
15. A Spatial Study of Mortality and Incidence of Kidney Cancer in the USA. (Jonathan Guy).
16. A Study of County Demographic Profiles in the 2016 Presidential Elections with a Focus on Opioids Mortality (Jonathan Lee).
17. Proximity to Nuclear Power Plants and Associated Cancer Risk (Austin Manuel).
18. Clusters of Breast Cancer in the USA: Incidence and Mortality (Bridget Fritsch). (**published**)
19. A Spatial Study of all Bridges in the USA and Associated Maintenance Needs (Talia Baraco- 2017/2018).

2017

20. Proximity to Nuclear Power Plants in the USA and Associated Breast Cancer Risk.(Steven Kern)
21. Clusters of the Top 5 Female Cancer Types in the USA and Air Pollution. (Olga Akkan)
22. Clusters of the Top 5 Male Cancer Types in the USA and Air Pollution. (Christian Jarquin)

23. Lung Cancer and Bronchus Clusters and Association with Air Pollution. (Charnelle Brown)
 24. Mercury and Lead Pollution and Breast Cancer. (Joseph Wojciechowski)
 25. Population Profiles for the 2016 Presidential Elections in the USA. Shawn Harrell)
 26. Crimes Arrests in the USA and Associations with Air Pollution.(Mehul Patel)
 27. Clusters of Cervical Cancer Incidences in the USA and Air Pollution. (Huberman Dorcent)
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2016

28. Pediatric Cancer Clusters in Florida (Sam Russel)
 29. Geographic Clusters of Violent Crimes in the USA (Hongbo Yang)
 30. Clusters of Divorce Rates in the USA (Nicole Conway)
 31. Clusters of Breast Cancer in the USA (Anne Starling)
 32. Clusters of Diabetes in the USA (Grace Simones)
 33. Clusters of DUI Rates in the USA (Shannon MacDougall)
 34. Geographic Clusters of Murder in the USA (Amber Jones)
 35. Clusters of Teenage Births in the USA (Jennifer Hans) (**published**)
 36. Clusters of Physical Inactivity Rates in the USA (Vitaliy Goncharenko)
 37. Clusters of Primary Physicians in the USA (Russel Frith)
 38. Clusters of Alzheimer's Disease in the USA (Eric Yacko) (**published**)
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2015

39. Trend and Cluster Analysis on Large EPA Data Sets (Toni Charlot)
40. Cancer Associations with Nitrate and Nitrite concentrations across the nation (Tina Churchill)
41. Motorcycle Accident Fatalities (Ramsey Dial)
42. The Relationship between Employment and Retail Sales (Cheryl Little)
43. Health Care Rate and Air Pollution (Ralph Myers)
44. Cluster Analysis of Heart Disease Deaths in the USA (Cynthia Newton)
45. Time Series Forecasting of Crime Rates in the USA (Kristina Platt)
46. Murder Arrests and Reported Cluster Analysis (Sean Young)

47. A Study of Superfund Sites in the Forty-eight Contiguous States of the United States of America. (Arlene Nelson Barbas)) (**published**)

CONSULTING

Department of Mathematics and Statistics, University of West Florida. Consult with faculty and students on any statistical analyses. (August 1987-present).

Sacred Heart Hospital (Florida State Residency Program). I am responsible for supporting all resident physicians in their residency projects (UWF-SHHS contract, 2010-present).

West Florida Hospital (Pharmacy Residence Program). I am responsible for supporting all resident pharmacists in their residency projects (UWF-WFH contract, 2014-present).

Faculty Development:

Member of the 2005-2006 UWF LEAD group for leadership training.

LEAD Fellow in the College of Business, 2006-2007. I worked closely with Dr. Ed Ranelli, Dean of COB in addition to Dr. Carl Backman, Assistant Dean in COB and Assistant to the Provost.

Community Service:

Member, Pensacola North Rotary Club.

PUBLICATIONS

Google Scholar Citation Index:

<https://scholar.google.com/citations?user=QZnHYuoAAAAJ&hl=en&oi=ao>

Citation indices	All	Since 2014
Citations	2000	691
<u>h-index</u>	18	11
i10-index	25	17

A. Publications in Peer Reviewed Journals

1. Reynolds, M. R., Jr., **Amin, R. W.**, Arnold, J. C., and Nachlas, J. A. “ \bar{X} -charts with Variable Sampling Intervals." *Technometrics*, 30 (1988), 181-192.
2. Reynolds, M. R., Jr., **Amin, R. W.**, and Arnold, J. C. “CUSUM Charts with Variable Sampling Intervals." Featured article in *Technometrics*, 32 (1990), 371-396.
3. Ncube, M. M., and **Amin, R. W.** “Two-parameter Cu-Score Quality Control Procedures". *Communications in Statistics: Theory and Methods*, 19 (1990), 2191-2205.
4. **Amin, R. W.** and Letsinger, W. C., Jr. “Improved Switching Rules for Control Procedures Using Variable Sampling Intervals". *Communications in Statistics: Computation and Simulation*, 20 (1991), 205-230.
5. **Amin, R. W.**, and Ncube, M. M.. “Variable Sampling Interval Combined Shewhart-Cumulative Score Control Procedure." *Applied Statistics*, 40 (1991), 1-12.
6. **Amin, R. W.** and Searcy, A. “A Nonparametric Exponentially Weighted Moving Average Control Procedure". *Communications in Statistics: Computation and Simulation*, B20, No. 4, (1991), 1049-1072.
7. Shamma, S. E., **Amin, R. W.**, and Shamma A. K. “A Double Exponentially Weighted Moving Average Control Chart with Variable Sampling Intervals". *Communications in Statistics:Computation and Simulation*, B20, No. 2&3, (1991), 511-528.
8. Wheatley, W. J., **Amin, R. W.**, and Maddox, E. N. . “The Effects of Gender and Leadership Styles in Problem-Solving for Management Training and Development", *Organization Development Journal*, Vol. 9, 3, (1991), 5160.
9. Saccucci, M. S., **Amin, R. W.**, and Lucas, J. M. . “Exponentially Weighted Moving Average Control Schemes with Variable Sampling Intervals". *Communications in Statistics : Computation and Simulation*, No. 3, (1992), 627-657.
10. **Amin, R. W.** and Miller, R. “A Robustness Study of the X-chart with Variable Sampling Intervals". *Journal of Quality Technology*, Vol. 25, No. 1,(1993), 36-44.
11. Shamma, S. E. and **Amin, R. W.** “An EWMA Quality Control Procedure for Jointly Monitoring the Mean and Variance". *International Journal of Quality & Reliability Management*, Vol. 10, No. 7, (1993), 58-67.
12. **Amin, R. W.** and Hemasinha, R. “The Switching Behavior of X Charts with Variable Sampling Intervals." *Communications in Statistics: Theory and Methods*, Vol. 22, Issue 7, (1993), 2081-2102.

13. **Amin, R. W.** and Wolff, H. "The Behavior of X-, R-, and Extreme-Value Control Charts in the Presence of Mixtures". *Sequential Analysis*, Vol. 13, No. 1, (1994), 35-52.
14. **Amin, R. W.** and Wolff, H. "The Behavior of EWMA-Type Control Charts in the Presence of Mixture Alternatives". *Sequential Analysis*, Vol. 14, No. 1, (1995), 157-177.
15. **Amin, R. W.**, Reynolds Jr., M.R., and Bakir, S. "Nonparametric Control Charts Based on the Sign Statistic". *Communications in Statistics: Theory and Methods*, 24, No. 6, (1995), 1597-1624.
16. **Amin, R. W.**, Schmid, W, and Frank, O. "The Effect of Autocorrelation on the R-Chart and the S-Chart." *Sankhya, Series B*, Vol. 59, Part 2, (1997) 229-255.
17. **Amin, R. W.** and Ethridge, R. "A Note on Individual and Moving Range Control Chart", *Journal of Quality Technology*, Vol. 30, No. 1, (1998), 70-74.
18. **Amin, R. W.** and Lee, S. J. "The Effect of Autocorrelation and Outliers on Two-Sided Tolerance Limits." *Journal of Quality Technology*, Vol. 31, No. 3, (1999), 286-300. [Impact Factor 2.3]
19. **Amin, R. W.**, Wolff, H., Besenfelder, W. and Baxley, Jr., R. "An EWMA for the Smallest and Largest Observations." *Journal of Quality Technology*, Vol. 31, No. 2, (1999), 189-207.
20. **Amin, R. W.** and Widmaier, O. "Sign Charts with Variable Sampling Intervals". *Communications in Statistics: Theory and Methods*, Vol. 28, Issue 8, (1999), 1961-1986.
21. **Amin, R. W.** and Li. K. "The MaxMin EWMA Tolerance Limits." *International Journal of Quality and Reliability Management*, Vol. 17, Issue 1, (2000).
22. Lee, S. J. and **Amin, R. W.** "Process Tolerance Limits." *Total Quality Management*, Vol. 11, No. 3, 267-280 (2000).
23. **Amin, R. W.** and Wilde, M. "Two-sided CUSUM Control Charts for Variability." *Allgemeines Statistisches Archiv (Journal of the German Statistical Society)*, No. 84, pp. 295-313, (2000).
24. **Amin, R. W.** and Li, K. "The Effect of Autocorrelation on the EWMA Maximum Tolerance Limits". *Journal of Statistical Computation and Simulation*, Vol. 72, Number 9, pp. 719-735, (2002).
25. Knoth, S. and **Amin, R. W.** "Tolerance Limits and Autocorrelation". *Journal of Statistical Computation and Simulation*. Vol. 73, No. 7, pp. 467-489, (2003).

26. Behan, K. and **Amin, R** “Normoglycemia encompasses two subpopulations with respect to vascular risk in non-obese Caucasian women”, *Lab Medicine*, Vol. 563, Nr. 1, (2005).
27. Pakulski D., Baldwin A., Dean, A., Durkin, S., Karentz D., Kelley K., Spero H., Wilhelm S., **Amin, R.** , and Jeffery W. “Responses to heterotrophic bacteria to solar irradiance in the eastern Pacific Ocean”, *Aquatic Microbial Ecology*, Vol. 47, pp. 153-162, (2007)
28. **Raid Amin**, Kuiyuan Li, and Oliver Bengel (2008). “Tolerance Limits Based on the Multivariate MaxMin Chart.” *Communications in Statistics: Simulation and Computation*. Volume 37, Issue 5, pp 1020 – 1037.
29. Kuiyuan Li and **Raid Amin** (2008). “A Method for a Special Singular Eigenvalue Problem”. *Advances in Mathematical Sciences Journal (AMSJ)*. Vol. 5, No.2, 1-11, 2008.
30. Kuiyuan Li, Jossy Uvah, **Raid Amin**, and Rohan Hemasinha (2009). “A Study of Non-traditional Instruction on Qualitative Reasoning and Problem Solving in General Studies Mathematics Courses.” *Journal of Mathematical Sciences & Mathematics Education*, Vol. 4 No. 1 37
31. Robert R. Hoffman, Morris Marx, **Raid Amin**, and Patricia L. McDermott. (2010) “Measurement for Evaluating the Learnability and Resilience of Methods of Cognitive Work.” *Theoretical Issues in Ergonomic Science*.
32. **Raid Amin**, Alexander Bohnert, Laurens Holmes, Ayyappan Rajasekaran, and Chatchawin Assanasen (2010). *Cover Page and Research Article* in *Pediatric Blood and Cancer*. 2010 April; 54(4): 511-8. *Highlighted* in “Childhood cancer clustering in Florida: weighing the evidence,” Johnson KJ, Puumala SE. *Pediatric Blood and Cancer*. 2010 April; 54(4): 493-4. “Epidemiologic Mapping of Florida Childhood Cancer Clusters”. *Pediatric Blood and Cancer*, Vol. 54, Issue 4, pp.511-518.
33. **Raid Amin** and Kuiyuan Li (2010). “Should Graduate Mathematics Courses be taught fully online?” *Electronic Journal of Mathematics and Technology*, Volume 4, Number 1, pp. 47-56.
34. Kuiyuan Li, Jossy Uvah, **Raid Amin**, and Anthony Okafor (2010). “A Study of College Readiness for College Algebra.” *Journal of Mathematical Sciences & Mathematics Education*, vol. 5, #1, pp. 52-66.
35. **Raid Amin**, Alexander Bohnert, Laurens Holmes, Ayyappan Rajasekaran, and Chatchawin Assanasen (2010). Response to “Childhood Clustering in Florida: Weighing the Evidence”. *Pediatric Blood and Cancer*, Vol. 54, Issue 7, pp. 1053.
36. Pamela P. Vaughan, Paul Novotny, Nicole Haubrich, Luther McDonald, Michael Cochran, Julia

Serdula, **Raid W. Amin**, Wade H. Jeffrey (2010). "Bacterial Growth Response to Photoactive Quinones". *Photochemistry and Photobiology*. Vol. 86: pp.1327–1333.

37. Kuiyuan Li, **Raid Amin**, Jossy Uvah (2011). "On Synchronous Distance Teaching in a Mathematics MS Program." *US-China Education Review*.

38. Baugh F, Archer S, Mitchell R, Rosenfeld R, **Amin R**, Burns J, Darrow D, Giordano T, Litman R, Li K, Mannix M, Schwartz R, Setzen G, Wald E, Wall E, Sandberg G, Patel M. *Clinical Practice Guidelines: Tonsillectomy in Children. Otolaryngology—Head and Neck Surgery* (2011) 144: S1.

39. Erich Ritter and **Raid Amin** (2012). "Effect of human body position on the swimming behavior of bull sharks, *Carcharhinus leucas*." *Society & Animals*.

40. **Raid Amin**, Erich Ritter, and Peter Kennedy (2012). "A geospatial analysis of shark attack rates for the east coast of Florida: 1994–2009", *Marine and Freshwater Behaviour and Physiology*.

41. Kuiyuan Li, Jossy Uvah, **Raid Amin** (2012). "Predicting Students' Performance in Elements of Statistics" *US-China Education Review*.

42. Raid Amin, Erich, Ritter, and Laura Cossette (2012). A Geospatial Analysis of Shark Attack Rates for the Coast of California: 1994–2010, *Journal of Environment and Ecology*, Macrothink Institute. Vol. 3, No. 1.

43. Erich Ritter and **Raid Amin**, (2013), "Are Caribbean reef sharks, *Carcharhinus perezii*, able to perceive human body orientation?" *Animal Cognition*. Volume 17, Number 3, pp 745-753. Impact Factor=2.805 in 2017. (Springer Verlag issued a press release for this article on December 4, 2013. Springer Select – ground-breaking research)

<http://www.springer.com/about+springer/media/springer+select?SGWID=0-11001-6-1447944-0> The Economist has an article about it in its 12.14.2103 issue. <http://www.economist.com/news/science-and-technology/21591551-some-sharks-know-how-stay-out-sight-nearby-people-hes-behind-you>

44. Erich Ritter, **Raid Amin**, Aletheia Zambesi (2013). "Do Lunar Cycles Influence Shark Attacks"? *Open Fish Science Journal*, 6, 71-74.

45. Poe AM, **Amin RW**, Minhas BS, Rippa BA (2013). Advancing endometriosis stage is associated with a decline in anti-mullerian hormone independent of age and tobacco. *Fertility and Sterility*.

46. **Raid Amin** and James Burns (2014). "Clusters of adolescent and young adult thyroid cancer in Florida counties." *BioMed Research International*. [open access online journal]

47. **Raid W. Amin**, Michael Hendryx PhD, Matthew Shull & Alexander Bohnert (2014). "A cluster analysis of pediatric cancer incidence rates in Florida: 2000-2010." *Special Issue of Statistics and Public Policy*. The American Statistical Association. Volume 1, Issue 1, pp. 69-77.

48. **Raid W. Amin** (2014). "Background on Florida Pediatric Cancer Cluster Studies." *Special Issue of Statistics and Public Policy*. The American Statistical Association.

49. **Raid Amin**, Erich Ritter, and Ashleigh Wetzel (2014). "An Estimation of Shark Attack Risk for the North and South Carolina Coast Lines." *Journal of Coastal Research*.
50. Julie Decesare, **Raid Amin**, and Donna Maxwell (2015). "Postpartum Contraception Rates in Centering Pregnancy Versus Traditional Obstetrical Care." *The Journal of Reproductive Medicine*.
51. N Salz, A Lopez, **R Amin**, JJ Burns (2014). Perceived Pain with HPV Vaccine compared to other recommended Vaccines for Adolescents: what causes the biggest "Ouch"? *Journal of Investigative Medicine*.
52. T Pinto, **R Amin**, J Burns, M Kummer (2015). "Impact of implementation of a multidisciplinary diabetes program on reducing poorly controlled diabetes." *Journal of Investigative Medicine* 63 (2), 462-462
53. Erich Ritter and **Raid Amin** (2015). "A Study of Shark Stealth Behavior in the Proximity of Divers." *Open Journal of Animal Sciences*, 2015, 5.
54. Brittney Williams, Sharon Seidel, **Raid Amin**, Blakele Bakker, Julie DCesare (2015). "Quantified Blood Loss: An Alternative Method in Correlating Change in Predelivery and Postdelivery Hematocrit." *Obstetrics and Gynecology*, vol. 125. (The Green Journal, **Impact Factor: 5.656**)
55. **Raid Amin**, Nicole S. Nabors, Arlene M. Nelson, Murshid Saqlain, and Martin Kulldorff (2015). "Geographical Clusters of Rape in the United States: 2000-2012." *Journal of Statistics and Public Policy*.
56. James Burns, Naomi Flock, Mary Lopez, Lela Hobby, Amanda Lopez-Beyer, **Raid Amin** (2015). "A Blinded Comparison of Injection Pain with Quadrivalent HPV Vaccine." *Journal of the Pediatric Infectious Diseases Society*.
57. Smith L, Mosley J, Lott S, Cyr E Jr, **Amin R**, Everton E, Islami A, Phan L, Komolafe O. Impact of pharmacy-led medication reconciliation on medication errors during transition in the hospital setting. *Pharmacy Practice* 2015 OctDec; 13(4):634. doi: 10.18549/PharmPract. 2015.04.634
58. Erich Ritter and **Raid Amin**. Mouth Cleaning of Lemon Sharks, *Negaprion brevirostris*, by Sharksuckers, *Echeneis naucrates*. *Copeia* (2016). [Impact Factor 1.220]
59. **Raid Amin**, Erich Ritter, Martin Kulldorf, Arlene Barbas, Mischa Schwarzmeier "Sharksuckers, *Echeneis naucrates*, are non-randomly attached to the bodies of lemon sharks, *Negaprion brevirostris*: A spatial study". *Environmental Sciences*. 2016. [Impact Factor 3.120]
60. Achraf Cohen and **Raid Amin**. "The Effects of Normal Mixtures and Autocorrelation on the Fraction Non-Conforming". *Communications in Statistics - Simulation and Computation* (2016).
61. Bouso J, Burns J, **Amin R**, Livingston F, Eldemir O. "Household proximity to water and nontuberculous mycobacteria in children with cystic fibrosis ." *Pediatric Pulmonology*. (2016).

62. **Amin R.**, DeCesare J., Hans J., Roussous-Ross K., Epidemiological Surveillance of Teenage Birth Rates in the United States, 2006-2012, *Obstetrics and Gynecology (The Green Journal)*, **Impact Factor: 5.656** (2017). This article was reviewed in FORBES.com on May 9, 2017 in an article by Rita Rubin. <http://www.forbes.com/sites/ritarubin/2017/05/10/teen-birth-rate-has-fallen-but-in-some-parts-of-u-s-its-still-nearly-twice-the-national-average/#195879997f84>. Its Altmetric score was 622 on June 27, 2017.
63. DeCesare J., Hannah D., **Amin R.**, Postpartum Contraception Use Rates of Patients Participating in the Centering Pregnancy Model of Care Versus Traditional Obstetrical Care, *The Journal of Reproductive Medicine* (2017).
64. Gorman S, Lee A, **Amin R.**, and Burns J. "Potential adverse consequences of early discharge for newborns who meet American Academy of Pediatrics criteria", *Clinical Pediatrics*. (2017). [Impact Factor : 0.89]
65. **Amin, R. W.**, Guttman, R. P., Harris, Q. R. and Thomas, J. W. (2018), "Prediction of Vancomycin Dose for Recommended Trough Concentrations in Pediatric Patients With Cystic Fibrosis" *The Journal of Clinical Pharmacology*. doi:10.1002/jcph. [Impact factor for 2016: 2.812]
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66. **Raid Amin**, Arlene Nelson, Shannon McDougall. "A Spatial Study of the Location of Superfund Sites and Associated Cancer Risk". *Journal of Statistics and Public Policy* (2018). doi: 10.1080/2330443X.2017.1408439.
67. DeCesare J, Roussous Ross D, Vidrine S, Ashby M, Peterson H . **Amin R.** Barriers to Tdap Vaccination in Pregnancy: Perspectives from Obstetricians and Patient Infections Disease in Obstetrics and Gynecology. *International Journal of Obstetrics and Gynecology*, (2018). [Impact Factor: 2.17]
68. **Raid W. Amin**, Erich Ritter, Bethany A Bonell. "Shark bite rates along the US Gulf coast: a first investigation." *Environmental Sciences*. (2018) [Impact Factor: 3.243]
69. DeCesare JZ, Ross KR, Vidrine S, Peterson H, Ashby M, Floyd E. and **Amin R.** (2018) Barriers to Tdap Vaccination in Pregnancy: Perspectives from Obstetricians and Patients. *International Journal of Pregnancy & Child Birth* 4(1): 00077. DOI: 10.15406/ipcb.2018.04.00077.
70. **Raid Amin**, Eric Yacko, and Rodney Guttman. Geographic Clusters of Alzheimer's Disease Mortality Rates in the USA: 2008-2012. *Journal of Prevention of Alzheimer's Disease*. No. 4, Vol. 5, (2018).
71. James Burns, Rachael Carrevans, Christine Pham, Vignesh Nayak, **Raid Amin**. "Risk Factors Predicting Readmission to the Hospital in Children with Bronchiolitis." *Clinical Pediatrics*, (2018). Impact Factor=1.409 for 2018.
72. Erich Ritter and **Raid Amin**. "Mating Scars among Sharks Evidence of Coercive Mating? *acta ethologica*. DOI: 10.1007/s10211-018-0301-z (2018).

73. **Raid Amin**, Bridget Fritsch, John Retzloff. "Spatial Clusters of Breast Cancer Mortality and Incidence in the Contiguous USA: 2000-2014", *Journal of General Internal Medicine*. pp. 412-419, March (2019). [Impact Factor 4]
74. **Raid Amin**, Alexander Bohnert, David Banks. "Patterns of Pediatric Cancer in Florida: 2000-2015." *Statistics and Public Policy*. (2019)
75. **Raid Amin** and Julia Steinmetz. "Spatial Clusters of Life Expectancy and Association with Cardiovascular Disease Mortality and Cancer Mortality in the Contiguous US for the period 1980-2014", *Geospatial Health*. (2019) [Impact Factor 1.2]
76. **Raid Amin**, Bunpen Stafford, Rodney Guttmann. "A Spatial Study of Bladder Cancer Mortality and Incidence in the Contiguous US: 2000-2014". *Science of the Total Environment* (2019). [Impact Factor 6.6]
77. Erich Ritter, **Raid Amin**, Kevin Cahn, Jonathan Lee. "Against common assumptions: the world's shark bite rates are decreasing." *Journal of Marine Biology*. (2019). [Impact Factor 1.79]
78. **Raid W. Amin**, Erich Ritter, Bethany A Bonell. "Using local human population numbers to compare the incidence of shark bites on Florida's east and west coasts", *Florida Scientist*. (2019).
79. **Raid W. Amin**, Hongbo Yang, and Michael Lynch. "Homicide Clusters Across United States Counties, 2004-2012", *Deviant Behavior*, (2019). [Impact Factor 1.5]
80. **Raid Amin**, Ann Ross, Jonathan Lee, Jonathan Guy, Bunpen Stafford. "Patterns of Ovarian Cancer and Uterine Cancer Mortality and Incidence in the Contiguous USA." *Science of the Total Environment*, (2019). [Impact Factor 6.6].
81. **Raid Amin** and Bradly Rivera." A Spatial Study of Oral & Pharynx Cancer Mortality and Incidence in the U.S.A.:2000-2015." *Science of the Total Environment*. (2020). [Impact Factor 6.6]
82. Burns, J.J., Livingston, R. & **Amin, R.** The Proximity of Spatial Clusters of Low Birth Weight and Risk Factors: Defining a Neighborhood for Focused Interventions. *Matern Child Health J* (2020). <https://doi.org/10.1007/s10995-020-02946-y>. [Impact Factor 1.74]
83. **Raid Amin**, Erich Ritter, and Megan Richardson. "The Potential Impact of the Erroneous Categorization of Shark Bites on Incident Modeling". *Journal of Marine Biology and Oceanography*. (2020). [Impact Factor 1.13]
84. Erich Ritter, **Raid Amin**, and Ellie Farquhar. "Does the type of dive mask matter to a shark?" *Open Journal of Animal Sciences*, 10(3). (2020) [Impact Factor 1.54]

85. Erich Ritter and **Raid Amin**. "Does eye contact interruption between humans and Caribbean reef sharks, *Carcharhinus perezi*, influence their approach patterns?" *Journal of Ecotourism*. (2020) [Impact Factor 2.43]

86. James Burns, Stephen Rohl, Daniel Marth, Drexel Proctor, **Raid Amin**, Carol Sekhon. Which clinical features of children on initial presentation to the Emergency Department with head injury is associated with clinically important traumatic brain injury, classification as abuse and poor prognosis? *Pediatric Emergency Care*. (2020) [Impact Factor 1.170]

87. Raid Amin, Salih Kocak, Hakki E Sevil, Glenn Peterson, Jonathan Hamilton, Bradly Rivera, Talia Barraco. A Spatio-Temporal Cluster Analysis of Structurally Deficient Bridges in the Contiguous USA. *Developments in the Built Environment*. (2020)

B. Publications in Peer Reviewed Proceedings

1. Wheatley, W. J., Amin, R. W., and Maddox, E. N. (1989). "The Effects of Gender and Leadership Styles in Problem-Solving for Management Training and Development", *Proceedings of the 27th Annual Southern Management Association Meetings*, New Orleans, November 1989.
2. Wheatley, W. J., Amin, R. W., Armstrong, T. R., and VanderLinde, C. T. "The Effect of Leadership and Cognitive Processing Styles upon Peer Performance Evaluation: Implication for the Utilization of Simulations in Business Pedagogy." *Proceedings of the Association for Business Simulation and Experiential Learning (ABSEL)*, Nashville, April 1991.
3. Wheatley, W. J., Amin, R. W., Maddox, E. N., and VanderLinde, C. T. "Ascertaining Performance Variables for Use in Determining Students' Grades in Courses Employing a Business Simulation." *Proceedings of the Association for Business Simulation and Experiential Learning (ABSEL)*, Nashville, April 1991.
4. Bobbie, P.O., Amin, R. W., Hemasinha, R. and Huitt, S. "Statistical Prediction of Page Fault and Frame Allocation for Computer Programs", *Conference on the Interface Between Statistics and Computer Science*, Orlando, 1989.
5. Amin, R.W., Wolff, H., and Besenfelder, W. "An EWMA Control Chart for the Extremes", *Wuerzberg-Umea Conference in Statistics*, University of Wuerzberg, Germany, May 1996.
6. Hoffman, R. R., Marx, M., McDermott, P, and Amin, R. (2009, October). "The metrics problem in the study of cognitive work and a proposal for a family of solutions." In *Proceedings of the Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society.

7. Hitt, N., Hendryx, M., Amin, R., & Schull, M. (2012, September). Ecological Indicators of Human Cancer Mortality Rates: New Tools for Exposure and Risk Modeling. In *ENVIRONMENTAL AND MOLECULAR MUTAGENESIS* (Vol. 53, pp. S23-S23). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY-BLACKWELL.
8. Raid Amin, Arlene Nelson, Shannon McDougall (2017). *A cluster analysis of USA Superfund Sites and Associated Cancer Risk.* (Rome, Italy). 7th International Conference on Environmental Pollution and Remediation (ICEPR'17).

C. Book Chapters

Burgoyne CF, HW Thompson, DE Mercante, and **RW Amin**, Basic issues in the sensitive and specific detection in optic nerve head surface change within longitudinal LDT TopSS image: Introduction to the LSU experimental glaucoma (LEG) study, *Lead book chapter in: The Shape of Glaucoma, Quantitative Neural Imaging Techniques. Lemij HG, Schuman JS (eds). Kugler Publications, The Hague, The Netherlands, 2000 pp. 1-37, 1999.*

Ritter, E. & **R. Amin** (2017). The importance of academic research in the field of shark-human interactions: A three-pronged approach to a better understanding of shark encounters. In: Chondrichthyes. L. F. da Silva Rodrigues Filho and J. B. de Luna Sales (eds). InTech, Rijeka, Croatia, 63-80.

D. Peer Reviewed Clinical Research Abstracts

Salz N., Lopez-Beyer A., **Amin R.**, Burns J. Perceived Pain With HPV Vaccine Compared To Other Recommended Vaccine For Adolescents: What Causes The Biggest "Ouch"? Presented at platform presentation Southern Society for Pediatric Research (SSPR) 2014 Annual Meeting, New Orleans and poster presentation for National Pediatric Academic Society Meeting, Vancouver 2014.

Naomi Salz Fsu; Amanda Lopez-Beyer; **Amin, R.**, James J. Burns MD MPH. *Perceived Pain With HPV Vaccine Compared To Other Recommended Vaccine For Adolescents: What Causes The Biggest "Ouch"* Accepted for platform presentation at the Southern Regional Meeting 2014, New Orleans.

Burns J., Hommeida S., Broge T., Onuegbu P., Taylor S., Rivera G., Wilkinson D., Griffin D., Hobby L., **Amin R.** Risk Factors Associated with Kawasaki Disease: A Case-Control Study. Presented as platform presentation Southern Society for Pediatric Research (SSPR) 2014 Annual Meeting, New Orleans and poster for National Pediatric Academic Society Meeting, Vancouver 2014.

James Joseph Burns, **Raid Amin**, Tangra Broge, Salim Hommeida, Patricia Onuegbu, Sneha Taylor. *Relationship Between Wind Direction And A Temporal Kawasaki Disease (KD) Cluster*. Accepted for platform presentation at the Southern Regional Meeting 2014, New Orleans.

Burns J., Hills L., **Amin R.** *Parents perceived vs. actual immunization up to date (UTD) status for their adolescent*. Presented at the 2013 national Society for Adolescent Health and Medicine meeting.

Burns J., Broge T., Hommeida S., Onuegbu P., Taylor S., Griffin D., **Amin R.** *Geographic Cluster of Kawasaki Disease vs. a Control Population for Florida Panhandle Regional Children's Hospital*. Presented at the Southern Research Meeting 2013 and National Pediatric Academic Society Meeting 2013.

Burns J., Broge T., Hommeida S., Onuegbu P., Taylor S., Griffin D., **Amin R.** *Proximity to major bodies of water and Kawasaki Disease*. Presented at the Southern Research Meeting 2013 and National Pediatric Academic Society Meeting 2013.

Nguyen N., Panganiban J., **Amin R.**, Burns J. *Relationship Between HEADSS Assessment and Abnormal Pediatric Symptoms Checklist (Y-PSC) Scores in Screening Adolescents for Mental Health Problems*. Presented as platform presentation at the Eastern Society for Pediatric Research meeting in Philadelphia, Pa. March 2012 and poster presentation at the National Pediatric Academic Society Meeting, Boston Ma. May 2012.

Panganiban J., Nguyen N., **Amin R.**, Burns J. *High Internalizing Scores on the Pediatric Symptom Checklist Associated with Obesity and Higher Blood Pressure*. Presented as poster presentation at the National Pediatric Academic Society Meeting, Boston Ma. May 2012.

Burns J., Rivera-Diaz G., Broge T., Hommeida S., Onuegbu P., Hobby L., **Amin R.** *Spatial and Temporal Clustering of Kawasaki Disease in Florida Panhandle*. Presented as poster presentation at both the Eastern Society for Pediatric Research meeting in Philadelphia, Pa. March 2012 and the National Pediatric Academic Society Meeting, Boston Ma. May 2012.

Hannah, D.; **Amin, R.**; Maxwell, D.; DeCesare, J.: *Postpartum Contraception Rates in Centering Pregnancy versus Traditional Obstetrical Care*, accepted for presentation ACOG Poster Meeting, New Orleans, LA, May 2013.

PRESENTATIONS (outside UWF)

"Variable Time Delay Process Control." Presented at the Virginia Academy of Science (ASA Chapter) Meetings (with M. R. Reynolds and J. C. Arnold), Harrisonburg, Virginia, May 1986.

"Variable Sampling Interval Process Control." Presented at the American Statistical Association (ASA) Winter Meetings (with Marion R. Reynolds, Jr. and Jesse C. Arnold), Orlando, Florida, January 1987.

"CUSUM Charts with Variable Sampling Intervals". Presented at the American Statistical Association (ASA) Winter Meetings (with Marion R. Reynolds, Jr. and Jesse C. Arnold), San Antonio, Texas, January 1988.

"Two Parameter Cu-Score Quality Control Procedures". Presented at the American Statistical Association (ASA) National Meetings (with Matoteng M. Ncube), New Orleans, Louisiana, August 1988.

"Variable Sampling Interval Combined Shewhart-Cumulative Score Quality Control Procedures". Presented at the American Statistical Association (ASA) National Meetings (with Matoteng M. Ncube), New Orleans, Louisiana, August 1988.

"Exponentially Weighted Moving Average Control Schemes with Variable Sampling Intervals". Presented at the American Statistical Association (ASA) Winter Meetings (with Michael S. Saccucci), San Diego, California, January 1989.

"Enhanced Exponentially Weighted Moving Average Control Schemes". Presented at the 53rd IMS Annual Meeting/ 2nd World Congress of the Bernoulli Society (with Michael S. Saccucci and Jim M. Lucas), Uppsala, Sweden, August 1990.

"Control Charts with Variable Sampling Intervals". Presented at the Louisiana State University- Medical Center, New Orleans, October 1990.

"CUSUM Charts with Variable Sampling Intervals". Presented at the Fall Technical Meetings of the American Society for Quality Control/ American Statistical Association as the Technometrics Featured Paper, Richmond, Virginia, October 1990.

"Improved Switching Rules in Control Charts Using Variable Sampling Intervals". Presented at the Florida Chapter of the ASA Meetings, Gainesville, Florida, January 1991.

"The Switching Behavior of VSI Control Charts." Presented in the Department of Statistics, University of Southwestern Louisiana, Lafayette, February 1991.

"Improved Switching Rules in Control Charts Using Variable Sampling Intervals". Presented at the Joint Statistical Meetings of the ASA, Atlanta, August 1991.

"Control Charts with Variable Sampling Intervals." Invited paper presented at the Mathematics Department, Stochastic Division, Ulm University (Germany), July 1992.

"The Behavior of \bar{X} , R, and Extreme-Value-Control Charts in the Case of Mixture Alternatives." (jointly with Hans Wolff). Presented at the Joint Statistical Meetings of the ASA, Boston, August 1992.

"The Behavior of Some Control Charts in the Case of Mixture Alternatives." Presented at the Louisiana State University Medical Center, New Orleans, February 1993.

"The Behavior of Some Control Charts in the Case of Mixture Alternatives." Presented at the International Statistical Institute meetings, Firenze, Italy, August 1993.

"Some Aspects of Control Charts with Variable Sampling Intervals." Invited paper presented at the Hamburg Bundeswehr University, Germany, October 1993.

"The Behavior of Some Control Charts in the Case of Mixture Alternatives." Presented at the Mathematics Department, Ulm University, Germany, October 1993.

"Some Nonparametric Control Charts Based on the Sign Statistics." Presented at the Mathematics Department, Ulm-Hohenheim-Wuerzberg Conference on Stochastic Processes, Ulm University, Ulm, Germany, December 1994.

"EWMA Control Charts for the Extremes." Invited paper presented at the International Conference on Statistical Methods and Statistical Computing for Quality and Productivity Improvement, Seoul, South Korea, August 1995.

"Fractional Factorials: An Overview." Seminar presented to staff and faculty of the Ulm University Biometry and Medical Documentation Department, Ulm, Germany. May 1996.

"Some Control Charts Based on the Extremes." Presented at the 4Wuerzberg-Umea Conference in Statistics, University of Wuerzberg, Germany, May 1996.

"The EWMA Control Chart For the Smallest and Largest Observation." Presented in the Industrial and Systems Engineering Department, Georgia Tech, November 1996.

"Some Nonparametric Control Charts for Monitoring Process Variability." Presented at the Joint Statistical Meetings of the ASA, Anaheim, California, August 1997.

"Nonparametric Control Charts for Variability." Invited talk. Presented at the Dept. of Applied Statistics, the University of Minnesota, April 1998.

"Smoothed Tolerance Limits." (jointly with S. J. Lee). Presented at the Joint Statistical Meetings of the ASA, Dallas, Texas, August 1998.

"Some New Distribution-free Control Charts". Presented at the Economics Department, Europe-Viadrina University, Frankfurt (Oder), Germany, November 1999.

"Nonparametric Control Charts for Variability". Presented at the Mathematics Department, Ulm University, Ulm, Germany, December 1999.

"Nonparametric Control Charts". Presented at the 5th. International Conference for Statistics, Combinatorics, and Related Areas, Mobile, Alabama, December 1999.

"Smoothed Tolerance Limits and Autocorrelation". Presented at the Second Southern Conference on Computing, Hattiesburg, MS, October 2000 (jointly with K. Li).

"The Use of Smoothed Tolerance Limits in Screening White Blood Cells." This invited talk was presented with Dr. F. Wahab from the American Red Cross at the Vienna Meetings of the International B.E.S.T. group for safer blood transfusion, Vienna (Austria). (2000)

"EWMA Tolerance Limits". Presented at the Magdeburg Pfingsttagung, Magdeburg, (Germany). (June 2001)

"Tolerance Limits and Autocorrelation". Presented at the Applied Statistics Conference, University of Michigan, Ann Arbor (2002).

"Multivariate Control Charts for Variability" Presented at the Joint Statistical Meetings of the American Statistical Association, San Francisco, (August, 2003).

"The MaxMin Chart with Variable Sampling Intervals". Presented at the Florida ASA Meetings, held at Florida State University, Tallahassee (2004).

"Multivariate Control Charts Based on the Extremes". Presented at the National Institute for Standards (NIST), May 2004.

"Multivariate Tolerance Limits". Presented at the German Statistical Association Meetings in Bielefeld, Germany (March 2007).

"New Control Charts for Location and Dispersion." Presented at the 56th Session of the International Statistical Institute, Lisbon, Portugal, (August 2007).

"Using an interactive learning environment in a multivariate statistics course" Presented at the Florida Chapter of the American Statistical Association Meetings (University of Central Florida, Orlando), February 2009.

"Using an Interactive Learning Environment in Graduate Mathematics Sciences Courses". The presentation was given at the Mathematical Association of America (MAA) in Fort Myers (February 2009).

“Epidemiological Mapping of AYA Thyroid Cancer in Florida”. Greehey Children Cancer Research Institute Symposium 20 at the University of Texas, San Antonio. February 25-26, 2010.

“Epidemiological Mapping of AYA Non-Hodgkins Lymphoma Cancer Rates in Florida”. Greehey Children Cancer Research Institute Symposium 20 at the University of Texas, San Antonio. February 25-26, 2010.

“Discussion of Epidemiologic Mapping of Florida Childhood Cancer Clusters,” Special Presentation to the Florida Surgeon General, Florida Deputy Secretary of Health, Florida Department of Health, and members of the Center for Disease Control. Tallahassee, Florida, March 2010.

“Update on the Epidemiological Mapping of Childhood Cancers in Florida.” American Society for Pediatric Hematology Oncology, April 7-10, 2010. Montreal, Quebec, Canada.

“A Cluster Analysis of Childhood cancer rates in Florida”. Talk presented at the German University in Cairo, May 2010

“Should Graduate Mathematics Courses Be Taught Fully Online?” Annual Meeting of the American Association of University Professors, Washington DC, June 9-12, 2010.

“A Study on Synchronous Distance Teaching in a Math MS Program.” Kuiyuan Li, Raid Amin, Josaphat Uvah. Annual Conference on Higher Education Pedagogy. 2011.

“A Cluster Analysis of Carcinogenic Air Pollution in Louisiana.” Talk presented at the Mathematics Department, University of New Orleans. (2011)

“A Cluster Analysis of Crime Rates in the USA”. Talk presented at the German University in Cairo, May 2011.

“A Geospatial Cluster Analysis of Incidence Rates of Pediatric Cancers in Florida: 2000-2008.” Target Meeting’s 1st World Cancer Online Conference, January 12-14, 2012.

“On Synchronous Distance Teaching in a Mathematics MS Program. “2012 Joint Mathematics Meetings in Boston, MA. January 2012.

“A Cluster Analysis of Air Quality and Water Quality data for Florida”. Talk presented at the German University in Cairo, May 2012.

“A Cluster Analysis of Cancer Rates in Florida”. Talk presented at the University of Massachusetts at Amherst, October 2012.

“An Ecological Study of Associations between Cancer Rates and Quality of Air and Streams.” Target Meeting’s 2nd World Cancer Online Conference, January 8-11, 2013.

“Applied Research with Spatial Analysis”, Department of Mathematics, University of New Orleans, April 10-11, 2013.

“An Ecological Study of Associations between Cancer Rates and Quality of Air and Streams”, 7th International Workshop on Simulation, Rimini, Italy June 21-25, 2013.

“A USA Map for Carcinogenic Air Pollution”, Target Meeting’s 3rd World Cancer Online Conference, January 21-24, 2014.

“Cancer Clusters in Florida: 2000-2010 (with material on air quality and stream integrity)”. Workshop “New Approaches in Environmental Statistics“ presented at the Viadrina University, Frankfurt an der Oder, Germany (June 12-13, 2014).

“Carcinogenic Air Pollution in the USA”. Workshop “New Approaches in Environmental Statistics“ presented at the Viadrina University, Frankfurt an der Oder, Germany (June 12-13, 2014).

“A Cluster Analysis of Carcinogenic Air Pollution in the USA: From Counties to Census Tracts to Block Groups to Blocks” Association of American Geographers' Annual Meeting in Chicago, April 20-23, 2015.

“A cluster analysis of carcinogenic air pollution in the USA”. Spatial Statistics: Emerging Patterns 9-12 June 2015, Avignon, France.

“A Cluster Analysis of Pediatric Cancer Incidence Rates in Florida: 2000-2010”— Raid Amin, University of West Florida ; Michael Hendryx, Indiana University ; Matthew Shull, University of West Florida ; Alexander Bohnert, Nuremberg University-Erlangen. Joint Statistical Meetings (Seattle), *Are There Cancer Clusters in Florida? Five Answers* — Topic Contributed Papers, Section on Statistics in Epidemiology. August 2015.

“A Multi-Resolution Sequential Cluster Analysis of Carcinogenic Hazard Scores in the USA.”. (R Amin and T Charlot) The 2016 Annual Meeting of the American Statistical Association Florida chapter (at FSU), February 12-13, 2016.

“A Cluster Analysis of Pediatric Cancer Rates in Florida”. Invited talk presented at the Department of Mathematical Sciences, Georgia Southern University, February 26, 2016.

“A Multi-Resolution Cluster Analysis of RSEI Hazard Scores”. Presented at the 2016 TRI National Training Conference, October 19-21, 2016. Washington DC.

“Geographic Clusters of Pediatric Cancers in Florida”. Presented at the National Cancer Institute (NIH), October 20, 2016, Washington DC.

“County-level Patterns of Female Breast Cancer Incidence and Mortality in the Contiguous USA: 2009-2013”. Presented at the annual Florida Chapter Meetings of the American Statistical Association, Jacksonville, Florida, February 5-6, 2017.

“Geographic Clusters of Reported Violent Crimes in the USA: 2000-2012”. Invited presentation at the 2017 Annual Meeting for the American Association for the Advancement of Science (Serving Science Through Science Policy), Boston, February 17-20, 2017.

“A Cluster Analysis of Breast Cancer rates”. Presented at the 2017 Annual Meeting for the American Association of Geographers, Boston, April 10-14, 2017.

“A Cluster Analysis of EPA Air Pollution Data”. **Invited presentation** at the Institute for Health Metrics and Evaluation, Seattle, Washington, May 4, 2017.

“A Multi-Resolution Cluster Analysis of Risk Screening Environmental Indicators Carcinogenic Data”. **Invited Presentation** at Mathematics Department, Ulm University, Ulm, Germany, May 12, 2017.

“A cluster analysis of USA Superfund Sites and Associated Cancer Risk.” (Rome, Italy). 7th International Conference on Environmental Pollution and Remediation (ICEPR'17). June 8-10, 2017.

“A Quality of Life Index for Counties in the USA: 2010”. Invited talk at the Biostatistics Department, Louisiana State University Health Sciences Center, New Orleans. September 18, 2017.

“Geographic Clusters of Cancer Mortality Rates in the Contiguous USA:2000-2014”. Institute for Health Metrics and Evaluation, University of Washington, March 19, 2018.

“Geographic Clusters of Cancers in the USA”. Regional Studies Association (SRA) Annual Conference: 2018, Lugano, Switzerland, June 3-6, 2018.

“A Quality of Life Index”. A colloquium at the Department of Mathematics and Statistics, University of West Florida, March 2019.

“Spatial Clusters of Breast Cancer Incidence and Mortality in the Contiguous USA: 2000-2014”, Viadrina University, Frankfurt(Oder), Germany, June 2019.

HONORS AND AWARDS

- Mu Sigma Rho National Statistical Honor Society.
- Pi Mu Epsilon Mathematical Honor Fraternity.
- Received an Outstanding Performance and Achievement Award authorized by the

- 1990 Florida Legislature.
- Nominated for teaching award, UWF, 1991.
 - Nominated for teaching award, UWF, 1994.
 - Invited Technometrics Paper, Fall Technical Meetings of the American Society for
 - Quality Control/ American Statistical Association, October 1990.
 - Invited Visiting Professor, Department of Mathematics, Ulm University, Germany, August 1992.
 - Invited Visiting Professor, Department of Mathematics, Ulm University, Germany, Dec. 1994.
 - Invited talk, International Conference on Statistical Methods and Statistical Computing for Quality and Productivity Improvement, Seoul, Korea, August 1995.
 - Invited Visiting Professor, Department of Mathematics, Ulm University, Germany, May 1996.
 - Teaching Incentive Program Award, UWF, 1996.
 - UWF Distinguished Research and Creative Activities Award, 1998.
 - Teaching Incentive Program Award, UWF, 2004.
 - Summer Research Award, UWF, Summer 2004.
 - Invited Visiting Professor, German University in Cairo, Egypt, May 2010.
 - UWF “Small Research Grant”, Summer 2010.
 - Invited Visiting Professor, German University in Cairo, Egypt, May 2011.
 - UWF “Small Research Grant”, Summer 2011.
 - University of West Florida Center on Aging award (with Stephen Bridges) for "Elderly Homicide-Suicide in Florida: A cluster Analysis Using SaTScan"
 - Invited Visiting Professor, German University in Cairo, Egypt, May 2012.
 - The Economist (December 12, 2013) featured an article about my sharks research with Erich Ritter.
 - ***Distinguished University Professor, 2014.***

GRANTS/CONTRACTS

- University of West Florida Research Council Summer Grant. Summer 1988.
- Contract for training and consulting, Monsanto Chemical Company. Summer 1989.
- Contract for training and consulting, Monsanto Chemical Company. Fall 1989.
- Travel grant to Sweden from the Institute of Mathematical Statistics. Summer 1990.
- Developed and conducted a training program for quality technicians at the Naval Air Station (Pensacola) as a preparation for taking the Quality Technician Certification Examination offered through the American Society for Quality Control (January 1990-August 1990).
- University of West Florida Research Council Summer Grant. Summer 1991.

- Contract for a course on the design of experiments, Monsanto Chemical Company, Spring 1992.
- Contract for a course on the design of experiments, Sverdrup Technology, Fall 1992.
- University of West Florida Research Council Summer Grant. Summer 1993.
- Contract for a course on statistical quality control, Monsanto Chemical Company, Summer 1994.
- National Science Foundation International Travel Grant for travel to Germany, 1997-1999.
- University of West Florida Summer Grant to Develop Grant Proposal, Summer 2000. University of West Florida Summer Grant to Develop Grant Proposal, Summer 2001. University of West Florida Summer Grant to Develop Grant Proposal, Summer 2002.
- University of West Florida Summer Grant to Develop Grant Proposal, Summer 2004.
- University of West Florida Summer Grant to Develop Grant Proposal, Summer 2006.
- James & Esther King Biomedical Research Program Grant, Subcontractor at UWF, "Identifying and Addressing Cancer Outcome Disparities in Breast and Lung Cancer." 2010-2014. (\$125,000)
- Florida Center for Brain Tumor Research (FCBTR) in partnership with Accelerate Brain Cancer Cure (ABC2) 2010 Research Grant Program. An Epidemiological Surveillance of Brain Cancer in Florida. (\$75,000)
- Contracts with Sacred Heart Hospital System for consulting with all resident physicians at SHHS. (2010-present)
- Contracts with West Florida Hospital for consulting with resident pharmacists (2014-present)

SERVICE TO THE PROFESSION

Reviewer for:

Technometrics

Journal of Quality Technology

Journal of Statistical Computation and Simulation

International Statistical Review

Scandinavian Journal of Statistics.

Communications in Statistics: Theory and Methods.

Communications in Statistics: Computation and Simulation.

Pakistan Journal of Statistics.

Management Science.

IIE Transactions.

International Journal of Health Geographics.
PLOS ONE.
American Journal of Public Health
International Journal of Environmental Research and Public Health
Pediatric Infectious Disease Journal.
European Journal of Clinical Pharmacology.
Spatial and Spatiotemporal Epidemiology
Geospatial Health
Ethnicity & Disease
Science of the Total Environment
Brain Research
Public Health
Applied Geography

Member of the Scientific Committee in the 8th International Conference on Environmental Pollution and Remediation (ICEPR'18), Madrid, Spain, August 2018.

SERVICE

Graduate Committee, Dept. of Mathematics and Statistics, August 1991-1997.
Undergraduate Committee, Dept. of Mathematics and Statistics, August 1987-1995, 1997.
College of Arts and Sciences Election Committee, 1989.
University International Education Committee, 1989-1992.
University Computer Services Committee, 1989-1993.
Colloquium Committee, Department of Mathematics and Statistics, 1990-1992.
Consultant to faculty and students at UWF in addition to local industry.
Assisted in the development of a Master's program in applied statistics with emphasis on statistical quality control.
Assisted in the organization of the Florida Chapter Meetings of the American Statistical Association at UWF, February 1989.
Personnel Committee, Department of Mathematics and Statistics, 1992-Present
Faculty Advisor, UWF Statistics Association, 1990-Present.
Co-chair, search committee for new Director of International Education at UWF, 1992.
University Faculty Senate, 1993-1996
College Personnel Committee, College of Science and Technology, 1992-1995.
Search committee for the Director of International Education at UWF, 1994.
Professorial Excellence Program selection committee, UWF, 1996.
University Personnel Committee, 1997.
1998 College of Science and Technology TIP Award Committee.
Departmental Undergraduate Committee, 2000.
College of Arts and Sciences Council, 2000-2014
Departmental Personnel Committee, 2000-now
University Faculty Personnel Committee, 2000.
University Faculty Senate (Academic Council, Graduate Committee), 2001-2002

College of Arts and Sciences Council Chair, 2002
College of Arts and Science Dean Search- Ex-officio Member 2002-2003
UWF Provost Search Committee (2003)
College of Arts and Sciences Council Member/Chair (2001-2004).
Director of the UWF Statistics Center (2003-2011).
University Personnel Committee (2003-2005).
Clinical Investigations Review Board (Sacred Heart Hospital), Member 2005-2011
CAS Council 2011-2014
Faculty Senate 2011-2015
CAS Personnel Committee 2011-2013
Faculty Senate 2017-present
Academic Council (Faculty Senate) 2019-2020
Departmental Personnel Committee 2017-present