

Dr. Alexey L. Sadovski
Texas A&M University-Corpus Christi
Science & Engineering, Mathematics & Statistics
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alexey.sadovski@tamucc.edu

Education

PhD in Mathematics and Physics, Academy of Science of the USSR, 1979.

MS in Applied Mathematics, Moscow Institute of Transport Engineers, 1974.

Licensures and Certifications

Certification of the online course development, teaching, and review, TAMUCC (2014 - Present).

Professional Employment

2019-present Chair of the Department of Mathematics and Statistics

1997-present Professor of Mathematics, College of Science and Engineering,
Texas A&M University - Corpus Christi

2009 Endowed Ruth Campbell Professor of Coastal and Marine Sciences

2005-present Associate Research Fellow of the Harte Research Institute

1993-1997 Associate Professor of Mathematics, College of Science and Technology,
A&M University - Corpus Christi

1991- 1993 Visiting Professor, Department of Mathematics at Texas A&I University,
Kingsville, Texas.

1989-1991 Professor, Department of Applied Mathematics at MIIT, Moscow,

1989 Certified as Professor by State Department of Higher Education of the USSR.

1988-1991 General Director of Research and Education Center "TVORETZ", USSR.

1974-1989 Instructor/Assistant-Professor/Associate-Professor at MIIT

TEACHING

Teaching Experience (last few years)

CMSS 5394, THESIS III: THESIS SUBMISSION

CMSS 6303, SYSTEMS ANALYSIS

CMSS 6305, NATURAL SYSTEMS MODELING

CMSS 6401, MATH CONCEPTS FOR SYSTEM SCI

CMSS 6590, ADVANCED TOPICS: Mathematical Methods for Decision Making

CMSS 6596, DIS: Mathematical and Statistical Modeling of Marshes

CMSS 6699, DISSERTATION DEFENSE

CMSS 6996, RESEARCH

CMSS 6998, DISSERTATION RESEARCH

MATH 1314, COLLEGE ALGEBRA
MATH 1316, TRIGONOMETRY
MATH 1324, BUSINESS MATHEMATICS
MATH 2305, DISCRETE MATHEMATICS I
MATH 2414, CALCULUS II
MATH 3312, COLLEGE GEOMETRY
MATH 3313, FOUNDATIONS OF NUMBER THEORY
MATH 3314, FOUNDATIONS OF REAL NUMBERS
MATH 3470, CALCULUS III
MATH 4301, INTRODUCTION TO ANALYSIS
MATH 4696, Mathematical Equations of Geophysics
MATH 5310, Topics in Mathematics: Leveling for Discrete Mathematics
MATH 5351, REAL ANALYSIS
MATH 5375, APPLIED ANALYSIS
MATH 5390, SPECIAL TOPICS; MATHEMATICAL MODELING OF NATURAL,
ENVIRONMENTAL, AND ECONOMICAL SYSTEMS
MATH 5394, RESEARCH METHODS IN MATH
MATH 5396, DIS - MULTIVARIATE STATISTICS AND SYSTEM ANALYSIS
MATH 5993, LITERATURE REVIEW & RESEARCH
MATH 5994, PROPOSAL RESEARCH
MATH 5995, THESIS

Thesis, Project, or Dissertation Supervision (last few years)

Dissertation Committee Chair

Hongzhi Song (Coastal & Marine Systems Science) "Determination of local Geoid in the Coastal Areas of the Gulf of Mexico" Completed (September 1, 2009 - August 8, 2013)

Dissertation Committee Co-Chair

Evan Turner (Coastal & Marine Systems Science) (September 1, 2010 - December 31, 2014)

Dissertation Committee Member

Patricia Cockett (Coastal & Marine Systems Science) In-Process (June 1, 2016 - Present)

Dissertation Committee Member

Samreen Siddiqie Completed (Coastal & Marine Systems Science) In-Process (September 1, 2015 – May 2020)

Dissertation Committee Member

Elena Kobrinsky (Coastal & Marine Systems Science) "Status, strategies and cost management of offshore oil rig decommissioning and rigs-to-reefs programs in the Gulf of Mexico: Addressing decommissioning challenges using a multi-criteria approach" Completed (September 1, 2012 - December 16, 2017)

Master's Thesis Committee Chair

Zachary Chairez (Mathematics) Completed (September 1, 2018 – May 2020)

Jesse Slaten (Mathematics) Completed (June 1, 2018 - August 31, 2019)

Maha Shrestha (Mathematics) "A Hemodynamic modelling of the Blood Circulation" Completed (September 1, 2016 - December 31, 2016)

Najla Alsudais (Mathematics) "OIL AND WATER INTERACTION: A MATHEMATICAL MODELING APPROACH" Completed (June 1, 2016 - December 31, 2016)

Xiaopeng Cai (Coastal & Marine Systems Science) "Species Distribution Modeling for King Mackerel (*Scomberomorus cavalla*) and its Prey Species in the Gulf of Mexico" Completed (September 1, 2013 - December 31, 2016)

Master's Thesis Committee Member

Lane Casper (Mathematics) "EXISTENCE OF A UNIQUE SOLUTION TO A SYSTEM OF EQUATIONS MODELING COMPRESSIBLE FLUID FLOW WITH CAPILLARY STRESS EFFECTS" Completed (September 1, 2017 - August 31, 2018)

Rabab Alakri (Mathematics) Completed (April 1, 2016 - May 10, 2017)

Postdoctoral Research Supervision

Hongzhi Song (Coastal & Marine Systems Science) "Geospatial Modeling of the Geoid" (September 1, 2013 - August 31, 2014)

SCHOLARLY AND CREATIVE ACTIVITIES**Publications**

Refereed

Books

A.L. Sadovskii, "Guide for Students on Operation Research", MIIT, Moscow (1982),

L.E. Sadovskii, A.L. Sadovskii "Mathematics and Sports", Moscow, Nauka (1985),

A.L. Sadovski, "Guide for Students on Probability and Statistics", MIIT, Moscow (1989),

Sadovski, A. L. "Application of Experts Methods in Decision Making Problems in Conditions of Fuzzy Information", Voprosy Kibernetiky, Academy of Science of the USSR, v.151, Moscow (1989).

A.L. Sadovski, L.E. Sadovski. "Mathematics and Sports - Mathematical Modeling in Sports Problems", Znanie, Moscow (1990)

L.E. Sadovski, A.L. Sadovski "Mathematik und Sport", Verlag, Berlin, Germany (1990), revised edition

L.E. Sadovski, A.L. Sadovski "Mathematics and Sports", American. Mathematical Society, (1993), Providence, RI, USA

Blair Sterba-Boatwright, Alexey L Sadovski An Introduction to Modeling, Wm. C. Brown Publishers, 1994,

Blair Sterba-Boatwright, Alexey L Sadovski "An Introduction to Modeling, Wm. C. Brown Publishers, 1996, 2nd edition.

L.E. Sadovski, A.L. Sadovski "Mathematics and Sports", India-Pakistan, 1998.

Conference Proceedings (peer reviewed):

Sadovski, A. L. (Plenary, Author & Presenter), "Analysis of Time Series of Coastal and Marine Systems," XMAS IV -Xiamen Marine Acvatic Symposium, 2019, Xiamen University, China, and Chinese Academy of Science, Xiamen, China. (January 6, 2019).

Siddiqui, S. (Author & Presenter), Scarpa, J. (Author), Sadovski, A. L. (Author), Conkle, J. L. (Author), "Future Water Quality Challenges to Aquaculture," SETAC North America 39th annual meeting, Society of Environmental Toxicology and Chemistry, Sacramento, CA. (November 5, 2018).

Sadovski, A. L., Jeffress, G. A., Tissot, P., Duff, J. S. (2015). *Mean Sea Level-What are the Recent Changes Along the Texas Gulf Coast?* Moscow: International Geographic Union Meeting 2015,

Sadovski, A. L., Montagna, P. A., King, S. A. (2015). *Modeling and visualization of the marsh's vegetation*. Paris: UNESCO Our Common Future.

Sadovski, A. L., Song, H.-Z., Jeffress, G. A. (2015). *Sea level rise and Geoid: Factor analysis approach*. Paris: UNESCO Our Common Future.

Song, H.-Z., Sadovski, A. L., Jeffress, G. A. (2013). *Kriging of Airborne Gravity Data in the Coastal Areas of the Gulf of Mexico* (vol. 1, pp. 63-67). Journal of Applied Mathematics and Physics.

Turner, E. L., Montagna, P. A., Sadovski, A. L. (2011). COASTAL MARINE SYSTEMS MODELER: INTERDISCIPLINARY PROJECT FOR ECOLOGICAL DATA RECOVERY. *Proceedings 2011 World Congress on Engineering and Technology* (vol. 7, pp. 542-548). Shanghai: IEEE Press.

Song, H.-Z., Sadovski, A. L. (2011). Evaluation of Downward Corrections of Gravitational Free-air Anomalies to Evaluate Geoid in Coastal Areas. *Proceedings 2011 World Congress on Engineering and Technology*. (vol. 5, pp. 676-679). Shanghai: IEEE Press.

Sadovski, A. L., Montagna, P. A. (2010). *On Dynamical Models of Multi-Species Plant Populations in Marshlands* (pp. 161-165). Proceedings of the 12th WSEAS International Conference on MATHEMATICAL and COMPUTATIONAL METHODS in SCIENCE and ENGINEERING (MACMESE '10).

Zimmer, B. G., Sadovski, A. L., Tissot, P., Sterba-Boatwright, B. D. (2008). In C. H. Dagli et. Al. (Ed.), *Monte Carlo Simulations and Factor Analysis to Optimize Neural Network Input Selections and Architectures* (vol. 18, pp. 501-508). New York, NY: Engineering Systems through Artificial Neural Networks / ASME Press.

Sadovski, A. L. (2008). *On Statistical Dynamics of Evaluation of Quality of Teaching and Learning*. Bangkok: ATCM 2008 Conference.

Prouty, D., Lyle, S. D., Jeffress, G. A., Smith, R. A., Sadovski, A. L., Mulcare, D., Roman, D., Childres, V., Aiken, C., Brozena, J. (2007). "Naval Research Laboratory Gulf of Mexico Geoid Model Texas Reference Center Pilot Project" *American Geophysical Union, Fall Meeting 2007, abstract #G32A-05*. American Geophysical Union.

Bachnak, R., Sadovski, A. L., Jeffress, G. A., Lyle, S. D. (2006). "Applied research offers undergraduate students experience and ideas for Projects". San Diego Ca: 36th ASEE/IEEE Frontiers in Education Conference.

Sadovski, A. L., Steidley, C., Tissot, P., Zimmer, B. G. (2005). *Real Time Web Availability of Statistical Models for Water Levels along the Texas Coastline* (2005th ed., vol. Vol. 4 – Signal Processing, systems modeling and control, pp. p. 218-223). ICINCO 2005, Proceedings of the Second International

Conference on Informatics in Control, Automation and Robotics, Barcelona, Spain, September 14-17, 2005.

Zimmer, B. G., Tissot, P., Flores, J. S., Bowles, Z., Sadovski, A. L., Steidley, C. (2005). *Water Level Forecasting along the Texas Coast: Interdisciplinary Research with Undergraduates*. Portland, Oregon: Proceedings of the 2005 American Society for Engineering Education Annual Conference & Exposition.

Zimmer, B. G., Flores, J. S., Tissot, P., Sadovski, A. L. (2005). *Research with an Undergraduate Student: Using Entropy to Assess the Training of a Neural Network* (2005th ed., pp. 8 pages). Proceedings of the American Society for Engineering Education- Gulf-Southwest Section 2005 Annual Conference.

Tintera, G. D., Balasubramanya, M., Sadovski, A. L. (2005). *A program orienting incoming freshman towards integrating mathematics with science and engineering*. Corpus Christi, Texas: Proceedings of the 2005 American Society for Engineering Education Gulf-Southwest Annual Conference.

Tissot, P., Cox, D. T., Sadovski, A. L., Michaud, P., Duff, J. S. (2004). In Stephen Curtis (Ed.), *Performance and Comparison of Water Level Forecasting Models for the Texas Ports and Waterways*. Reston, Virginia: Proceedings of the PORTS 2004 Conference / Coasts, Oceans, Ports and Rivers Institute. <http://content.coprinstitute.org/pubs/proceedings.html>

Journal Articles

Samreen Siddiqui, Jeremy L. Conkle, Alexey Sadovski (2020) Contiguous U.S. surface water availability and short-term trends of wastewater effluent flows in San Antonio, TX. *Environmental Pollution*, 265.

Samreen Siddiqui, Jeremy L. Conkle, Scarpa John, Alexey Sadovski (2020), An Analysis of U.S. Wastewater Treatment Plant Effluent Dilution Ratio: Implications for Water Quality and Aquaculture. *Science of the Total Environment*, 721.

Montagna, P. A., Sadovski, A. L., King, S. A., Nelson, K. K., Palmer, T. A., Dunton, K. H. (2017). Modeling of effects of water level on the Nueces Delta marsh community. *Wetlands Ecology and Management*, 25, 731-742. doi: 10.1007/s11273-017-9547-x

Turner, E. L., Bruesewitz, D., Mooney, R. F., Montagna, P. A., McClelland, J. W., Sadovski, A. L., Baskey, E. J. (2015). Comparing Performance of Five Nutrient Phytoplankton Zooplankton (NPZ) Models in Coastal Lagoons. *Ecological Modeling*, 277, 13-26.

Song, H.-Z., Sadovski, A. L., Jeffress, G. A. (2015). Precision of Geoid Approximation and Geostatistics: How to find continuous map of absolute gravity data. *Revista de Matematica: Teoria y Aplicaciones*.

Song, H.-Z., Sadovski, A. L., Jeffress, G. A. (2013). Kriging of Airborne Gravity data in the Coastal Areas of the Gulf of Mexico. *Journal of Applied Mathematics and Physics* (4), 63-67.

Song, H.-Z., Sadovski, A. L., Jeffress, G. A. (2013). Sea Level Rise and the Geoid: Factor Analysis Approach. *Revista de Matematica: Teoria y Aplicaciones*, 20(2), 65-80.

Zimmer, B. G., Sadovski, A. L., Tissot, P., Sterba-Boatwright, B. D. (2007). Monte Carlo Simulations and Factor Analysis to Optimize Neural Network Input Selections and Architectures. *Intelligent Engineering Systems through Artificial Neural Networks*, 18, 501-508.

Sadovski, A. L. (2007). Hierarchical Games and Fair Systems of Taxations. *WSEAS Transactions on Mathematics*, 6(1), 69-73.

Bachnak, R., Sadovski, A. L., Jeffress, G. A., Stacy, L. (2007). Sensing in Shallow Waters. *InTech Magazine*, 7(May), 68-72.

Sadovski, A. L., Zimmer, B. G., Sterba-Boatwright, B. D., Tissot, P., Bachnak, R. (2006). Analysis of the Gulf of Mexico Coastal and Estuarine Water Levels as Random Signals. *WSEAS Transactions on Mathematics*, 5(11), pp.1234-1241.

Sadovski, A. L., Zimmer, B. G., Sterba-Boatwright, B. D., Tissot, P., Bachnak, R. (2006). Analysis of the Gulf of Mexico Water Levels as random Signals. *WSEAS Transactions on Mathematics*, 5(11), 1234-1241.

Steidley, C., Thomas, D. R., Rush, R., Tissot, P., Sadovski, A. L. (2005). Applying Signal Processing Techniques to Water Anomaly Detection. *Proceedings of the Second International Conference on Informatics and Control, Automation and Robotics, IV*, 303-309.

Mostella, A., Sadovski, A. L., Duff, J. S., Michaud, P., Tissot, P., Steidley, C. (2005). Comparison of Gap Interpolation Methodologies for Water Level Time Series Using PERL/PDL. *Revista de Matematica: Teoria y Aplicaciones*, 12(1 & 2), 157-164.

Steidley, C., Rush, R., Tissot, P., Sadovski, A. L., Thomas, D. R. (2005). Signal Post-processing as Applied to Texas Coastal Ocean Observation Network (TCOON) Data. *Proceedings of the Seventh Controls and*

Applications Conference of the International Association of Science and Technology for Development.

Bowles, Z., Tissot, P., Michaud, P., Sadovski, A. L. (2005). Artificial Neural Network Predictions of Water Levels in a Gulf of Mexico Shallow Embayment. *Revista de Matematica: Teoria y Aplicaciones*, 12(1 & 2), 139-150.

Steidley, C., Sadovski, A. L., Bachnak, R. (2005). Supplemental data Acquisition Tools for Modeling Environmental Systems. *Revista de Matematica*, 12(1), 157-164.

Steidley, C., Sadovski, A. L., Tissot, P., Bachnak, R., Bowles, Z. (2005). Using Artificial Neural Networks to Improve Predictions of Water Levels Where Tide Charts Fail. *Lecture Notes in Artificial Intelligence* (3533), 599-608.

Steidley, C., Bachnak, R., Lohachit, W., Sadovski, A. L., Ross, C., Jeffress, G. A. (2005). A Remote-Controlled Vehicle for Interdisciplinary Research and Education. *Computers in Education Journal*, XV(4), 99-103.

Sadovski, A. L., Steidley, C., Torres-Knott, K. (2005). Program Implementation of the Rating Methods of Preference Ranking. *The Journal of Computing Sciences in Colleges*, 20(4), 242-249.

Non-Refereed

Journal Articles

Jeffress, G. A., Sadovski, A. L., Song, H., Warner, N. N. (2009). Some Mathematical Problems of the Geoid Determination in the Coastal Areas of the Gulf of Mexico. *Applied Mathematics and Computational and Information Science*, 1, 177-182. <http://www.wseas.us/books/2009/houston/AAMCIS2.pdf>

Presentations

Sadovski, A.L. (Author), Chairez Z.P. (Author & Presenter), Chen B. (Author), Palaniappan D. (Author), Sterba-Boatwright B(Author), "Spatial-Temporal Models of Multi-Species Interactions to Study Impacts of Catastrophic Events", CERF 2019 Conference, Mobile, Alabama, (November 6, 2019)

Sadovski, A. L. (Plenary, Author & Presenter), "Analysis of Time Series of Coastal and Marine Systems," XMAS IV -Xiamen Marine Acvatic Symposium, 2019, Xiamen University, China, and Chinese Academy of Science, Xiamen, China. (January 6, 2019).

Siddiqui, S. (Author & Presenter), Scarpa, J. (Author), Sadovski, A. L. (Author), Conkle, J. L. (Author), "Future Water Quality Challenges to Aquaculture," SETAC North America 39th annual meeting, Society of Environmental Toxicology and Chemistry, Sacramento, CA. (November 5, 2018).

Siddiqui, S. (Author & Presenter), Scarpa, J. (Author), Sadovski, A. L. (Author), Conkle, J. L. (Author), "Future Water Quality Challenges to Aquaculture," SETAC North America 39th annual meeting, Society of Environmental Toxicology and Chemistry, Sacramento, CA. (November 5, 2018).

Siddiqui, S. (Author & Presenter), Brooks, B. W. (Author), Scarpa, J. (Author), Sadovski, A. L. (Author), Conkle, J. L. (Author), "Relationships and trends of wastewater treatment plant effluent and stream flow within the United States," 38th Annual SETAC National Meeting, SETAC, Minneapolis, MN. (November 2017).

Sadovski, A. L. (Keynote, Author & Presenter), "Mathematical and Statistical Modeling of the Natural Systems in the Gulf of Mexico," Workshop on Mathematical Modeling, East China Normal University, Shanghai. (March 2017).

Cai, X. (Author & Presenter), Sadovski, A. L. (Author), Sterba-Boatwright, B. D. (Author), James, S. (Author), "Presence-only species distribution model for king mackerel and its 31 prey species in the Gulf of Mexico," Ocean Sciences Meeting 2016, New Orleans. (February 2016).

Sadovski, A. L. (Author & Presenter), "Mathematical and Statistical Modeling of the Coastal Systems in the Gulf of Mexico," Workshop on Mathematical Modeling, ECNU, Shanghai. (February 2016).

Sadovski, A. L. (Author & Presenter), Jeffress, G. A., Tissot, P., Duff, J. S., "Mean Sea Level-What are the Recent Changes Along the Texas Gulf Coast?," International Geographic Union Meeting 2015, International Geographic Union, Moscow, Russia. (August 17, 2015).

Sadovski, A. L. (Author & Presenter), Montagna, P. A., King, S. A., "Modeling and visualization of the marshes vegetation," UNESCO Our Common Future, UNESCO, Paris, France. (July 7, 2015).

Sadovski, A. L., (Author & Presenter), Song, H.-Z. (Author), Jeffress, G. A. (Author), "Sea level rise and Geoid: Factor analysis approach," UNESCO Our Common Future, UNESCO, Paris, France. (July 7, 2015).

Cai, X.(Author & Presenter), Simons, J. (Author),, Carollo, C. (Author),, Sterba-Boatwright, B. D(Author), Sadovski, A. L. (Author),, "Predicting 3 majors shrimp species distribution and abundance across the Gulf of Mexico through

different modeling techniques," Texas Bays and Estuaries Meeting, UT-MSI. (April 8, 2015).

Song, H.-Z., Sadovski, A. L., Jeffress, G. A., "Precision of Geoid Approximation and Geostatistics: How to Find Continuous Gravity Map," International Conference SIMMAC XIX, University of Costa Rica, San Jose, Costa Rica. (February 26, 2014).

Song, H.-Z. (Author), Sadovski, A. L. (Author & Presenter), Jeffress, G. A., "Kriging of Airborne Gravity Data in the Coastal Areas of the Gulf of Mexico," CET 2013 : World Congress on Engineering and Technology, IEEE,, Sanyo, China. (October 26, 2013).

Sadovski, A. L. (Author & Presenter), Montagna, P. A. (Author), King, S. A. (Author), Nelson, K. C. (Author), Palmer, T., Turner, E. L., "Nueces Delta Ecological Modeling," ECSA 53 Estuaries and Coastal Areas in the time of intense change, ECSA, Elsevier, ECNU, SKLEC,, Shanghai, China. (October 14, 2013).

Sadovski, A. L. (Author & Presenter), Montagna, P. A. (Author), King, S. A. (Author), Turner, E. L.(Author), "MODELING AND VISUALIZATION OF THE MARSHES VEGETATION," ASLO 2013: Aquatic Sciences Meeting, Association for the Sciences of Limnology and Oceanography, New Orleans. (February 20, 2013).

Sadovski, A. L. (Author & Presenter), Montagna, P. A. (Author), Turner, E. L. (Author), Su, S. (Author), "Evaluation of parameters for nutrient-phytoplankton-zooplankton dynamical system," XVIII International Symposium on Mathematical methods Applied to Sciences, University of Costa Rica, San Jose, Costa Rica. (February 23, 2012).

Sadovski, A. L. (Author & Presenter), Jeffress, G. A. (Author), Song, H.-Z., "Geoid and Sea Level Rise: Application of Factor Analysis to Local and Global Data of Mean Sea Level Rise," XVIII International Symposium on Mathematical methods Applied to Sciences, University of Costa Rica, San Jose, Costa Rica. (February 22, 2012).

Turner, E. L. (Author), Montagna, P. A. (Author), Sadovski, A. L. (Author & Presenter), "COASTAL MARINE SYSTEMS MODELER: INTERDISCIPLINARY PROJECT FOR ECOLOGICAL DATA RECOVERY," 2011 World Congress on Engineering and Technology, IEEE, Shanghai, China. (2011).

Song, H.-Z. (Author), Sadovski, A. L. (Author & Presenter), "EVALUATION OF DOWNWARD CORRECTIONS OF GRAVITATIONAL FREE-AIR ANOMALIES TO EVALUATE GEOID IN COASTAL AREAS," 2011 World Congress on Engineering and Technology, IEEE, Shanghai, China. (2011).

Sadovski, A. L., Song, H.-Z. (Author), "Geoid and Sea Level Rise: Impact on Coastal Areas," BIT's 1st World Congress of Environmental Biotechnology-2011, International Research Center of International Talent, BIT, Dalian, China. (October 21, 2011).

Sadovski, A. L. (Author & Presenter), Montagna, P. A. (Author), "Spatial-Temporal Model of Multi-Species Vegetation in Marshlands," GERS 2010 Biennial Meeting, Gulf Estuarine Research Society, UT Marine Science Institute, Port Aransas, Texas. (2010).

Sadovski, A. L. (Author & Presenter), Montagna, P. A. (Author), "Spatial-Temporal Model of Multi-Species Vegetation in Marshlands," The 12th WSEAS International Conference on MATHEMATICAL and COMPUTATIONAL METHODS in SCIENCE and ENGINEERING (MACMESE '10), WSEAS, NAUN, Portugal. (2010).

Sadovski, A. L. (Author & Presenter), Jeffress, G. A. (Author), Tissot, P. (Author & Presenter), Duff, J. S. (Author), Ussery, S. (Author), "Mean Sea Level-What are the Recent Changes Along the Texas Gulf Coast?," 2010 Sea Level Rise Conference, Harte Research Institute, Corpus Christi, Texas. (March 2010).

Sadovski, A. L. (Author & Presenter), Jeffress, G. A. (Author), Song, H.-Z. (Author), "On Some Models of the Equipotential Gravity Surfaces in the Coastal Areas," SIAM Conference on Mathematical and Computational Issues in Geosciences, SIAM, Leipzig, Germany. (June 17, 2009).

Prouty, D. (Author), Lyle, S. D. (Author), Roman, D. R. (Author), Mulcare, D. M. (Author), Jeffress, G. A. (Author), Sadovski, A. L. (Author), Aiken, C. L. (Author), Smith, R. A. (Author & Presenter), Childers, V. A. (Author), Brozena, J. M., "Naval Research Laboratory Gulf of Mexico Geoid Model Texas Reference Center Pilot Project," American Geophysical Union Joint Assembly 2007, American Geophysical Union, Acapulco, Mexico. (2007).

Contracts, Grants and Sponsored Research

Grant

Sadovski, Alexey L. (Co-Principal), Simons, James (Principal), "RESTORE SCIENCE: Inventory and gap analysis of Gulf-wide predator-prey data and associated habitat data with a strategy toward comprehensive monitoring living marine resource diet data in the Gulf of Mexico," Sponsored by DOC-NOAA, Federal, \$388,000.00. (September 1, 2015 - August 31, 2018).

Sadovski, Alexey L. (Co-Principal), Montagna, Paul A. (Principal), "Modeling and Analysis Tools for Nutrient Dynamics in the Gulf of Mexico," Sponsored by NOAA, Federal, \$72,000.00. (June 1, 2011 - December 31, 2014).

Sadovski, Alexey L., Montagna, Paul A., "Nueces Delta Ecological Modeling for Nueces River and Tributaries, Texas," Sponsored by US Army Corp of Engineers, Federal, \$240,000.00. (August 1, 2009 - August 30, 2012).

Sadovski, Alexey L., Jeffress, Gary A., "Local Geoid Variations and Sea Level Rise in the Coastal Areas of the Gulf of Mexico," Sponsored by Texas Research Development Fund, State, \$18,000.00. (September 1, 2010 - August 31, 2011).

Sadovski, Alexey L. (Principal), Montagna, Paul A. (Principal), "Predicting marsh ecosystems change," Sponsored by Texas Research Development Fund, State, \$36,000.00. (September 1, 2009 - August 31, 2010).

Sadovski, Alexey L. (Principal), King, Scott Alan (Co-Principal), "Development of New Models of the Local Geoid along the Coast of the Gulf of Mexico.," Sponsored by TAMUCC, State, \$24,000.00. (September 1, 2008 - August 31, 2009).

King, Scott Alan (Principal), Sadovski, Alexey L. (Co-Principal), "Visualization and Modeling of the Environmental Phenomena in Bays and Estuaries," Texas A&M University-Corpus Christi, \$35,425.00. (November 1, 2007 - August 31, 2008).

King, Scott Alan (Principal), Sadovski, Alexey L. (Co-Principal), "Modeling, Simulation, and Visualization of the Environmental Phenomena in the Bays and Estuaries of the Gulf of Mexico," Texas A&M University-Corpus Christi, \$40,400.00. (October 1, 2007 - August 31, 2008).

Sadovski, Alexey L. (Co-Principal), Fernandez, John (Principal), "NSF Minority Institution Initiative," Sponsored by NSF, Federal, \$1,200,000.00. (September 1, 2004 - August 31, 2007).

Sadovski, Alexey L. (Co-Principal), Steidley, Carl (Principal), Bachnak, Ray (Co-Principal), "NASA IRA," Sponsored by NASA, Federal, \$1,800,000, (September 1, 2001 - December 31, 2006).

SERVICE (last few years)

Department

Committee Member, Promotion and Tenure.

Committee Member, Search Committee. (December 2018 - Present).

Committee Member, Department Graduate Committee. (September 2017 - Present).
Committee Member, Department P&T Committee. (September 2015 - Present).
Committee Member, Graduate Committee. (September 2015 - Present).
Committee Chair, Faculty Search Committee. (September 2017 - August 2018).
Committee Chair, Chair of Department Search Committee. (February 2017 - June 2017).
Committee Member, Administrative Search Committee. (June 2016 - July 2016).

College

Committee Chair, Promotion and Tenure Committee. (September 2018 – August 2019).
Committee Chair, CMSS Course&Curriculum Committee. (September 2013 – February 2020).
Committee Member, Research Committee. (September 2016 - August 2017).
Committee Chair, Promotion and Tenure Committee. (October 2013 - August 2015).

University

Committee Member, Academic Integrity Committee. (September 2018 – August 2019).
Committee Member, SPIRA. (November 2013 - August 2018).
Committee Member, Intercollegiate Athletic Council. (September 2011 - August 2017).
Committee Member, Promotion and Tenure Committee. (September 2007 - May 2013).
Committee Member, Faculty Developmental Leave Committee. (September 2007 - August 2011).

Professional

Editorial Review Board Member, Revista de Matematica: Teoria y Aplicaciones. (January 2009 - December 2018).
Committee Member, Programming Committee of SIMMAC XXI International Conference. (September 2017 - February 2018).
Reviewer, Book, WISLEY Publishing. (October 2016 - December 2016).
Committee Member, Programming Committee of SIMMAC XX International Conference. (September 2015 - February 2016).
Committee Member, Programming Committee of SIMMAC XIX International Conference. (September 2013 - March 2014).
Committee Member, Organizing Committee, Chair of Special Sessions of CET 2013 International Conference. (January 2013 - November 2013).
Co-Chair of the Conference, International conference on Computational and Applied Mathematics. (July 2012 - October 2013).

Committee Chair, 2011 World Congress on Applied Mathematics and engineering. (October 2011 - November 2011).

REFERENCES

Scott King, Ph.D., Chair of Computing Sciences and Professor of Computer Science
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Phone: 361-825-5877
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Paul Montagna, Ph.D., Endowed Chair and Professor at HRI
Texas A&M University-Corpus Christi, 6300 Ocean Dr, Corpus Christi, TX 78412
Office: HRI 210A
Phone: 361-825-2040
Email: paul.montagna@tamucc.edu

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