

JOSÉ H. GUARDIOLA

AUGUST 2012

TEXAS A&M UNIVERSITY-CORPUS CHRISTI CI-309

CORPUS CHRISTI TX • 78412

OFFICE (361)825-5544

WEBPAGE at <http://www.sci.tamucc.edu/~jguardiola>

E-MAIL jose.guardiola@tamucc.edu

ACADEMIC PREPARATION

- Baylor University, Waco TX, **Doctor of Philosophy** in Statistics, May 2004. Dissertation advisor: John Seaman. Dissertation title: " The Semicircular Normal Distribution ", developed on a new circular distribution, properties and inference, including Bayesian inference.
- Baylor University, Waco TX, **Master of Arts** in Statistics, December 2001, coursework and oral examination.
- Instituto Tecnológico de Estudios Superiores de Monterrey (ITESM), Monterrey N.L, México, **Master of Science** in Manufacturing Systems, August 2000. Thesis advisor: Noel Leon Rovira. Thesis title " Análisis del Estado del Arte en Técnicas de optimización Matemática Aplicadas a Elementos Finitos ", (" State of the Art in Mathematical Optimization applied to the Finite Elements Method ") GPA of 96.2 (Scale 0-100) 1st in class, Excellence Mention Award.
- University of Toronto, Toronto Canada, **Master of Engineering** in Structural Engineering, December 1988, coursework and project.
- Universidad Autónoma de Chihuahua, Chihuahua, Chih., México, **Bachelor of Science** in Civil Engineering, October 1985, Grade Point Average 91.3 (Scale 0-100) second in class. Honorable Mention Award.

COURSES AND CERTIFICATIONS

- Blackboard training course " Blackboard Learn 9.1 ", course offered by the "Center for Faculty Excellence" and taught by Joseph Doan at Texas A&M University-Corpus Christi, eight hours, May 24 - June 2 2011.
- Web-based training course " Protecting Human Research Participants " offered by The National Institutes of Health (NIH) Office of Extramural Research, course completed, March 11, 2009, Certification Number 200554.
- " Bayesian Clinical Trials ", course taught by Scott Berry S. from Berry Consultants, March 27, 2009.
- " Bootstrap Methods and Permutation Tests for Doing and Teaching Statistics ", course taught by Tim Hesterberg, March 28, 2008.
- " Application of Artificial Intelligence to Environmental and Geospatial Sciences ", Corpus Christi, TX, January 12-13, 2007.

- " Math Syllabi Review " course taught by Joan Canales from the " Faculty Renaissance Center ", Texas A&M - Corpus Christi, April 26 2005.
- " Learning Outcomes ", offered by the " Faculty Renaissance Center ", Texas A&M - Corpus Christi, January 25, 2005.

COMPUTER SKILLS

Experience on:

- All Microsoft office applications.
- Mathematical packages: Mathematica, Mathcad, Matlab.
- Statistical packages: S-Plus, JMP, WinBUGS (for Markov Chain Monte Carlo methods), R, SPSS, SAS, MINITAB.
- Programming Languages: Fortran, C++, visual basic.
- Operating systems: MS_DOS, Windows, Unix.
- Databases: Fox-Pro, dBase, Microsoft Access.
- Engineering: Autocad, ANSYS, Pro-Engineer.

LANGUAGES

- Native Spanish speaker, fluent in English.

EXPERIENCE

- 2010- Today: Granted tenure and promoted to **Associate Professor** of Mathematics at Texas A&M University – Corpus Christi, since September 1st, 2010, Chair of the Department: Dr. George Tintera, (361)825-2724.
- 2004– 2010: **Assistant Professor** of Mathematics, Texas A&M University - Corpus Christi, 6300 Ocean Dr., CI 301, Corpus Christi, Texas 78412, Chair of the Department: Dr. George Tintera, (361)825-2724.
- 2002-2004 **Statistical Consultant**, Baylor University, P.O. Box 97140 Waco, Texas 76798, Supervisor: Dr. Jack Tubbs (254)710-1699 P.O. Box 97140.
- 2000-2002: **Teaching Assistant**, Psychology Department, Baylor University, P.O. Box 97334, Waco, Texas 76798. Taught lab section for an introductory statistics class. Supervisor: Dr. Roger E. Kirk (254)710-6741 P.O. Box 97334.
- 1999-2000: **Instructor and Coordinator of Mechanical Engineering**, Instituto Tecnológico de Estudios Superiores de Monterrey Campus Chihuahua, Chihuahua, Chih., México. Responsible for design and set-up of Mechanical Laboratories, supervision and design of student projects,

teaching courses in mechanical engineering. Supervisor: Ing. Gerardo Silveyra, 52(614) 439-5016.

- 1996–1997: **Instructor**, Engineering Department, Instituto Tecnológico de Estudios Superiores de Monterrey Campus Chihuahua, México. Supervisor: Ing. Gerardo Silveyra, 52(614) 439-5016.
- 1988–1996: **Instructor**, Instituto Tecnológico De Ciudad Cuauhtémoc, Cd. Cuauhtémoc, Chih. México, founding teacher (1988), Ph. 52(625) 581-1710.
- 1986-1997: **Professional Engineer**, Independent service provider, Cuauhtémoc, Chihuahua, México, offered services of supervision, analysis and design of buildings.

AWARDS

- 1st Place, poster competition. Conference of Texas Statisticians, Stephen F. Austin state University, Nacogdoches TX, April 2004.
- Graduate Research Assistantship providing consulting services in statistics, Department of Statistical Science, Baylor University, August 2002 - May 2004.
- Graduate Instructor Assistantship, Department of Statistical Science, Baylor University, August 2000 - May 2002.
- Excellence Mention Award, M. Sc., Instituto Tecnológico de Estudios Superiores de Monterrey (ITESM) Campus Monterrey, México, August 2000 (1st in class).
- " Best Professor " award from the Student Society of Industrial Engineers, Instituto Tecnológico de Estudios Superiores de Monterrey (ITESM) Campus Chihuahua, México, October 1997.
- Junior fellow at Massey College, University of Toronto, August 1987-May 1988.
- Rotary Foundation Scholarship granted to study at the University of Toronto, 1987.
- Honorable Mention Award, B. Sc., Universidad Autónoma de Chihuahua (UACH), Chihuahua, Chih., México, October 1985 (2nd in class).

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Member of the American Statistical Association since May 2002.

TEACHING

CLASSES TAUGHT

At Texas A&M University Corpus Christi, undergraduate courses:

- MATH 0399 " Intermediate Algebra "
- MATH 1314 " College Algebra "
- MATH 1342 " Statistics for the Social Sciences "
- MATH 1442 " Statistics for Life "
- MATH 2342 " Statistics for Physical and Life Sciences "
- MATH 3342 " Applied Probability and Statistics "
- MATH 4342 " Introduction to Mathematical Statistics "
- MATH 4696 " Directed Independent Study "

At Texas A&M University Corpus Christi, graduate courses:

- MATH 5315 " Statistical Methods in Research I "
- MATH 5316 " Statistical Methods in Research II" (Experimental Design)
- MATH 5342 " Linear Statistical Models "
- MATH 5344 " Environmental Statistics " (Spatial Statistics)
- MATH 5396 " Directed Independent Study "
- MATH 5595 " Thesis"

At Argosy University, teaching online classes since August 2011.

- HM6140 " Quantitative Methods ", graduate course part of the program of Master of Science in Health Services Manager.

At Baylor University, Waco Texas:

- PSY 2402 " Statistics ", teaching assistant for the lab section.

At Instituto Tecnológico de Estudios Superiores de Monterrey Campus Chihuahua, México (ITESM):

- Physics, Computer Assisted Drawing, Mechanisms, Static and Dynamic, Design Methodologies, Introduction to Engineering.

At Instituto Tecnológico de Ciudad Cuauhtémoc Chihuahua, México:

- Calculus, Differential Equations, Probability and Statistics, Strength of Materials, Static and Dynamic.

NEW COURSES PROPOSED AND IMPLEMENTED

Texas A&M University Corpus Christi, undergraduate courses created:

- Review of contents for MATH 3325, the course content was modified and renamed as MATH 4342, November 2005.
- Creation of course MATH 3342, " Applied Probability and Statistics ", this course substituted MATH 3325 and was designed to cover TExES competencies (Texas teacher certification) for Math majors.
- Implementation of new course MATH 1442 and development of material currently used on lab sections of Math 1442.

PARTICIPATION IN THESIS AND DISSERTATION COMMITTEES

- Master's Thesis Committee Member. Ms. Zulema Cervantes, Texas A&M University - Corpus Christi, (Mathematics) "Analysis and Applications of the Weighted Direction Method " Currently in process (April 20, 2012 – in progress)
- Dissertation's committee member for Ahmad Flaih, " Analysis and Applications of the Weighted Direction Method ", Mr. Flaih is currently working to obtain his Ph.D. degree in Applied Science at the Department of Applied Science at the University of Arkansas at Little Rock. (August 2010 – in progress).
- Member of the dissertation committee for Howraa Al-Mousawi, "The Multivariate Epsilon-Skew Laplace Distribution ", Ms. Al-Mousawi completed her Ph.D. degree in Applied Science at the Department of Applied Science at the University of Arkansas at Little Rock on April 1st, 2011.
- Master's Thesis Committee Member. Ms. Jennifer Compton, Texas A&M University - Corpus Christi, (Mathematics) "Scaling of Diagonally Dominant Matrices" Completed (January 2010 – December 2010)
- Jennifer Leary (Mathematics) "The Analysis of Mathematical Test Questions in Relation to Reading Difficulty" Completed (July 2006 - July 2007)
- Chair of the thesis committee for Ms. Rachel Larreta, entitled " Computing a Near Positive Definite Covariance Matrix from a Non-Positive Definite Matrix." Ms. Larreta completed her Master's degree in Mathematics at the Mathematics and Statistics Department at Texas A&M University - Corpus Christi on August 2010.
- Chair of the thesis committee for Mr. Xinyi Wang, entitled " Spatial Statistics applied to Real State Data ". Mr. Wang completed his Master's degree in Mathematics at the Mathematics and Statistics Department at Texas A&M University - Corpus Christi on August 2010.
- Member of the thesis committee for Jennifer Leary entitled " The Analysis of Mathematical Test Questions in Relation to Reading Difficulty ", Master Thesis, Mathematics and Statistics Department, Texas A&M University – Corpus Christi, July 2007.

SELECTED RESEARCH WITH STUDENTS

Research done with students at Texas A&M University-Corpus Christi:

- Faucett Amber, poster presentation entitled " Qualitative Spatial Reasoning about Point Position ", presented at Texas A&M University-Corpus Christi, 9th Annual Undergraduate Research Symposium, October 10th, 2009.

- Research assistant Jason Olivarez. Math undergraduate student from TAMUCC, he performed numeric simulations of research in spatial statistics during spring 2009.
- Research assistant Paul Geffert. Undergraduate student from Texas A&M University – College Station. Research assistant during summer 2006 at Texas A&M University – Corpus Christi.
- Johnson C., M.S. Thesis, " The Effect of Changes of Gravity on Human Monocyte Cell (TUR) Phagocytosis ", Texas A&M University – Corpus Christi, May 2005. She received advice on the statistical part of her thesis.

Statistical advice provided to graduate students at Baylor University:

- Kelly J., Ph. D. Dissertation, " Trophic Resource Partitioning Among nine Sympatric Congeners in an Ancient Tropical Lake ", Biology, Baylor University, Waco TX, 2005.
- Loudermilk M., M.S. Thesis, " A Comparison Study of Various Disposal Methods for on-site Sewage Facilities within the State of Texas", Environmental Studies, Baylor University, Waco TX, 2004.
- Peoples R., Ed. D. Dissertation, " Recruitment of Minority Faculty: A Comparison of Attitudes, Beliefs, Perceptions, Commitments, and Strategies of Texas Administrators in Selected Community Colleges ", Education, Baylor University, Waco TX, 2004.
- Martínez E., Ed. D. Dissertation, " Biology Instruction in Higher Education: Current Status of the Introductory Courses ", Education, Baylor University, Waco TX, 2003.

SCHOLARSHIP

AREAS OF RESEARCH

- Areas of interest are: Spatial Statistics, Circular Statistics, Bayesian Statistics, Probability Distributions Theory, and Education in Statistics.

ARTICLES PUBLISHED

- Li, Longzhuang, **Guardiola, Jose**, Li, Yonghuai. (2011) "Qualitative spatial representation and reasoning for data integration of ocean observing systems. " Computers, Environment and Urban Systems, vol. 35, no. 6, pp. 474-484.
- **Guardiola J.**, Larreta R., Tarazaga P., Elsalloukh H., (2010) "Computing a Near Positive Definite Covariance Matrix from a Non-positive Definite Matrix", Proceedings of the American Statistical Association, paper no. 309362, Statistical Computing Section, JSM Proceedings, Vancouver, B.C., Canada, ISBN 978-0-9791747-9-7 pp. 5526-5537.

- **Guardiola J.**, Durán-Hutchings N., Elsalloukh H., (2010) "Are Statistics Labs Worth the Effort? -Comparison of Introductory Statistics Courses Using Different Teaching Methods," *Numeracy*: Vol. 3: Iss. 1, Article 5. pp. 1-12, Available at: <http://services.bepress.com/numeracy/vol3/iss1/art5>
- **Guardiola J.**, Elsalloukh H., (2009) " The Modified Parametric Bootstrap ", Proceedings of the American Statistical Association, paper no. 305136, Statistical Computing Section, JSM Proceedings, Washington D.C., ISBN 978-0-9791747-7-3, pp. 4464-4468.
- Spencer M., **Guardiola J.**, Elsalloukh H., (2008) " Local Real Estate Market Efficiency in Response to Major Market Announcements " Coastal Business Journal, Coastal Carolina University, Volume 7, Number 1.
- Elsalloukh H. and **Guardiola J.**, (2008) " Analyzing Near-Normal Data Using a New Density Function within Azzalini's Class of Skew Distributions", *SJI, Journal of Mathematics, Statistics and Allied Fields*, Volume 2, Issue 1.
- **Guardiola J.**, Durán-Hutchings N., Champine J., (2007) " Differences In Students Performance Due to a Statistics Lab Component " Proceedings of the American Statistical Association, paper no. 742, Statistical Computing Section [CD-ROM], Alexandria, VA: American Statistical Association.
- **Guardiola J.**, Stamey J., Seaman J., Elsalloukh H., (2006) " The Semicircular Normal Distribution ", *Far East Journal of Theoretical Statistics*, Volume 20 No. 2 , issue of the FJTS, pp. 207-216.
- Elsalloukh H., **Guardiola J.**, Young D., (2005) " The Epsilon-Skew Exponential Power Distribution Family ", *Far East Journal of Theoretical Statistics*, Volume 17 No.1, issue of the FJTS, pp. 97-112.

ARTICLES ACCEPTED FOR PUBLICATION

- Al-Mousawi Howraa, Elsalloukh H., **Guardiola J.**, McMillan T., , " The Multivariate Epsilon-Skew Laplace Distribution", accepted for publication on February 2012, *Journal of Advances and Applications in Statistics*, Pushpa Publishing House.
- Al-Mousawi Howraa, Elsalloukh H., **Guardiola J.**, " Further analysis of the Epsilon skewed Laplace distribution", accepted for publication on March 2012, *Universal Journal of Mathematics and Mathematical Sciences*, Pushpa Publishing House.

ARTICLES IN PROGRESS

- **Guardiola J.**, Elsalloukh H., " The Modified Bootstrap in Spatial Statistics ", to be submitted to the *Journal of Statistical Computation and Simulation* or similar journal.
- **Guardiola J.**, Elsalloukh H., "Simple Statistical Derivations of Stirling's Formula Using Convergence to the Normal Distribution ", to be

- submitted to the International Journal of Mathematical Education in Science and Technology or similar Journal.
- Spencer M., **Guardiola J.**, Elsalloukh H., " Spatial Analysis for Local Real Estate Market Efficiency in Response to Major Market Announcements " to be submitted to the Coastal Business Journal, or similar journal.
 - Young E., **Guardiola J.**, " Preservice Teachers: Problem Solving and Emotion " to be submitted to a Journal of Education in Mathematics.

ARTICLES PRESENTED AT PROFESSIONAL MEETINGS

- Buck, G.W., **Guardiola J.**, Vanderheiden, D., Hendricks, M., Hamisch, B.T., and Trottier, S., Diabetic Hispanic populations and MRSA infection rates in Corpus Christi, Texas. National Institute of Diabetes, Digestive and Kidney Diseases--Network of Minority Research Investigators 8th Annual National Workshop, Bethesda, MD, April 22-23, 2010, Poster presentation # 4.
- Rhodes D., **Guardiola J.**, Hendricks M., Jordan T., Narang, R., Roefer G., " Sympathetic Therapy System Treatment Of The Generalized Autonomic Dysfunctions And Osteoporosis In Patients With Diabetes Type 2 , " presented at the American Diabetes Association, Abstract No. 2290-PO, 67th Annual Meeting, Chicago Il., June 22-26, 2007.
- Spencer M., **Guardiola J.**, Elsalloukh H., " Local Real State Market Efficiency in Response to Major Market Announcements," presented at the Southwestern Economics Association annual meeting, Albuquerque NM, March 14-17, 2007.
- Rhodes D., **Guardiola J.**, Carver D., Hendricks M., Roefer G. " Diabetic Peripheral Neuropathy Study", presented at the Diabetes Technology Society, Sixth Annual Meeting, Atlanta, November 2-4, 2006.
- Spencer M., **Guardiola J.**, Tubbs J., " Early Measurement of the Impact of a Tax Increment Financing Zone: The Corpus Christi Experience " presented at the Southwestern Economics Association annual meeting, New Orleans, March 26, 2005.
- Spencer M., **Guardiola J.**, Tubbs J., " Impact of Tax Incremental Financing: A Case Study, Corpus Christi, TX," presented at the Southwestern Society of Economists annual meeting, Dallas, March 3, 2005.
- Spencer M., **Guardiola J.**, Tubbs J., "Packery Channel Project Increases Property Values " Economic Pulse Online, Texas A&M University – Corpus Christi, Fall 2005 issue.

RECENT ABSTRACTS

- **Guardiola J.**, Larreta R., Tarazaga P., Elsalloukh H., " Computing a Near Positive Definite Covariance Matrix from a Non-Positive Definite Matrix ", abstract # 309362, Joint Statistical Meetings in Vancouver, BC, Canada, July 31 – August 5, 2010.
- Elsalloukh, H. and **Guardiola, J.**, " Score Test For Detecting Asymmetry Within The Skew Normal Distribution". The First International Conference on Mathematics and Statistics AUS ICMS'10, American University of Sharjah, United Arab Emirates, March 10, 2010.
- **Guardiola J.**, Elsalloukh H., " Spatial Bootstrap Method Using Equidistant Points," abstract No. 305136, Joint Statistical Meetings in Washington, DC, August 2-6, 2009.
- Elsalloukh, H. and **Guardiola, J.**, " Analyzing Near-Normal Data Using a New Class of Skew Distributions." International Conference of Mathematical Sciences ICMS, Istanbul, Turkey, August 2009.
- **Guardiola J.** , Durán-Hutchings N., Champine J., " Differences In Students Performance due to a Statistics Lab Component " presented at the 2007 Joint Statistical Meeting, (JSM), Salt Lake City, August 2, 2007.

PRESENTATIONS (* INVITED AND ** CONTRIBUTED)

- **** Guardiola J.**, Ahmad Flaih, Elsalloukh H., "A Robust Tobit Regression Model when Errors are from the Epsilon Skew Exponential Power Family," Session No. 401 presented at the Joint Statistical Meetings in San Diego, CA, (July 28-August 2, 2012).
- *** Guardiola J.** , " Estadística y sus Aplicaciones ", Presented at the "Twentieth Anniversary ITCC Week of Conferences, Instituto Tecnológico de Cd. Cuauhtémoc, Cd. Cuauhtémoc Chihuahua, Mexico, (November 18, 2011).
- *** Guardiola J.** , " Statistics and Applications in Science ", talk to the McNair Scholars group at Texas A&M University - Corpus Christi, on June 10th, 2011, Corpus Christi, TX.
- **** Elsalloukh H., Guardiola J.**, " A New Statistical Test for Analyzing Skew Normal Data ", presented at the 19th International Conference on Computational Statistics, paper # 295, Paris France, (August 22 – 27, 2010).
- **** Guardiola J.**, Larreta R., Tarazaga P., Elsalloukh H., " Computing a Near Positive Definite Covariance Matrix from a Non-Positive Definite Matrix ", presented at the Joint Statistical Meetings, session # 138, presented on August 2nd, 2010, Vancouver, B.C., Canada.
- **** Elsalloukh H., Guardiola J.**, " A Score Test for Detecting Asymmetry within the Skew Normal Distribution ". The First

- International Conference on Mathematics and Statistics ICMS10, Sharjah, United Arab Emirates, (March 2010).
- **** Guardiola J.**, Elsalloukh H., "Spatial Bootstrap Method Using Equidistant Points," Session No. 602 presented at the Joint Statistical Meetings in Washington, DC, (August 2-6, 2009).
 - * Elsalloukh, H., **Guardiola, J.**, "Analyzing Near-Normal Data Using a New Class of Skew Distributions." International Conference of Mathematical Sciences ICMS, Istanbul, Turkey, August 2009.
 - **** Young, E., Guardiola, J.**, Research Council for Mathematics Learning conference, Research Council for Mathematics Learning (RCML), Rome GA, "The role of emotion in mathematical problem solving," Conference, Academic. (March 6, 2009).
 - **** Young, E., Guardiola, J.**, Council for the Advancement of Mathematics Teaching (CAMT), Texas Council of Teachers of Mathematics (ICTM), Houston TX, "The role of emotion in mathematical problem solving" Conference, Academic, Referee, Accepted. (July 16, 2009).
 - * **Guardiola J.**, "La Distribución Semicircular Normal y sus Aplicaciones", (The Semicircular Normal Distribution and Applications), Presented at the statistics seminar, Master of Applied Statistics program, Instituto Tecnológico de Monterrey, Campus Monterrey, Monterrey N.L., (October 12, 2007).
 - **** Guardiola J.**, Durán-Hutchings N., Champine J., "Differences In Students Performance Due to a Statistics Lab Component" presented at the Joint Statistical Meeting, (JSM), Salt Lake City, (August 2, 2007).
 - * **Guardiola J.**, Elsalloukh, H., "A New Distribution In Circular Statistics" presented at Conference of Texas Statisticians (COTS), Baylor University, Waco TX, (March 30-31, 2007).
 - **** Spencer M., Guardiola J.**, "Local Real State Market Efficiency in Response to Major Market Announcements" presented at the College of Business Seminar, Texas A&M University – Corpus Christi, Corpus Christi TX, (January 26, 2007).
 - * **Guardiola J.**, "The Semicircular Normal Distribution", University of Arkansas at Little Rock, Seminar talk for Math Faculty and graduate students. Little Rock, Arkansas, (October 31, 2005).
 - **** Spencer M., Guardiola J.**, "Impact of Tax Incremental Financing: A Case Study", Seminar talk, Math Faculty. Texas A&M University CC, Corpus Christi, TX. (October 26th 2005).
 - * **Guardiola J.**, "Opportunities for Graduate Students in Statistics", TAMUCC Mathematics Club, Talk to Math graduate students, Texas A&M University - Corpus Christi, Corpus Christi, TX. (November 12th 2004)
 - **** Guardiola J.**, "The Semicircular Normal Distribution", Seminar talk, Math Faculty, Texas A&M University CC, Corpus Christi, TX (November 2004).

FUNDED GRANTS

- PI - Buck G., co-PI - **Guardiola J.**, A research proposal entitled "Morbidity Rates In Diabetic Hispanics Infected By Drug-Resistant Staphylococcus ", was submitted to the Steps Toward Academic Research (STAR) program through the Texas Center for Health Disparities of the University of North Texas health Science Center as part of the National Institutes of Health (National Center for Minority Health Disparities). This grant was funded at \$ 25,000 on November 2008. Currently under progress.
- PI - **Guardiola J.** A research proposal entitled " Bootstrap on Spatial Statistics ", was submitted to TRDF (Texas Research Development Funds) at Texas A&M University – Corpus Christi. This grant was funded at \$ 10,000 on July 2008, an undergraduate student participated in this research.

SERVICE

DEPARTMENTAL SERVICE

- Member of the Departmental Awards Committee since October 2010.
- Coordinator for the statistics labs for Math 1442, overseeing teaching assistants for these labs and development of material currently used on these sections (Fall 2006 - Present).
- Coordinator for adjunct Professors teaching statistics (Spring 2006 - Present).
- Member of the Undergraduate Program Review Committee Fall 2008 - Spring 2009. This committee reviews the self-study report for the Mathematics and Statistics Department that was presented to SACS (Southern Association of Colleges and Schools).
- Chair of the Statistics committee that among other activities, implemented policies and made decisions concerning the implementation of the new course Math 1442 and the lab sections (Spring 2006 - Spring 2008).
- Member of the mathematics instructor search committee at the Mathematics and Statistics Department at Texas A&M University - Corpus Christi (June 2007).
- Member of the Upper Division Undergraduate Committee that oversees issues related to the upper level undergraduate courses for Math majors. (Spring 2007 - Spring 2008).

COLLEGE SERVICE

- Member of the College of Science and Engineering Steering Committee since March 2011. Scheduled to serve for two years.
- Member of the Departmental Awards Committee since October 2009. Serving as Committee Chair since February 2011. Scheduled to serve until May 2011.

UNIVERSITY SERVICE

- Member of the Diversity Committee since September 2010 and scheduled to serve until May 2013.
- Member for the Science and Technology Awards committee since October 2009 and scheduled to serve for 2 years.
- Member of the Academic Standards Grievance Committee since fall 2008. This committee reviews claims of academic misconduct and issues decisions or recommendations regarding these claims. Scheduled to serve until 8/31/2011.
- Serving at the Disability Advisory Council (DAC) during 2007 - 2008, and serving again from November 2009 – today; this committee makes recommendations for the betterment of students with disabilities.
- Member of the Library Committee, representative for the Mathematics and Statistics Department (Spring 2005 - Spring 2008).

Instituto Tecnológico de Estudios Superiores de Monterrey (ITESM), campus Chihuahua:

- Coordinator and supervisor of a student's team at the Instituto Tecnológico de Monterrey campus Chihuahua. This team designed and built a car that participated at the SAE Mini-Baja design competition held in Manhattan Kansas, 2000.

PROFESSIONAL SERVICE

- Participation as a reviewer for the book by Navidi W., and Monk B. "Elementary Statistics ", 1st Ed., McGraw Hill (reviewed 10/19/2011, currently in press).
- Participation as a reviewer for *Numeracy: Advancing Education in Quantitative Literacy*, the Electronic Journal of the National Numeracy Network, review submitted on 9/20/2011; published on 2012.
- Participation as a reviewer for *Numeracy: Advancing Education in Quantitative Literacy*, the Electronic Journal of the National Numeracy Network, review submitted on 4/10/2011; published on 2011.
- Participation as a reviewer for the book by Matt Davis, " Meaningful Statistics ", Pearson, review submitted on November 2010.
- Participation as a reviewer for *Numeracy: Advancing Education in Quantitative Literacy*, the Electronic Journal of the National Numeracy Network, review submitted on 2/13/2010; published on 2011.

- Participation as a reviewer for the book by Jay L. Devore, " Probability and Statistics for Engineering and the Sciences ", 7th Ed., Thompson, ISBN 0-495-38217-5, 2006.

SELECTED CONSULTING ACTIVITIES

Participation as statistical consultant in the following research and educational projects:

- Iyer, Devasena, M.D., Schooler Kevin, M.D. " WAT-1 vs SOS:Determination of Iatrogenic Withdrawal in the ICU, A Pilot Study ", Driscoll Children's Hospital, presented at the Texas Pediatric Society, May 2012.
- Lucas Grace, Panda Sanjeet, Prieto Juan, " Effects of Urethroplasty Suturing Technique in Primary Tubularized Incised Plate (TIP) Hypospadias Repair, Driscoll Hospital, April 2012.
- Participation as a committee member for standardized college algebra examinations, Excelsior College Examination Program, Albany, New York, Sept. 30 - Oct. 2, 2011.
- Mathew S., Al-Akash S. " Rituximab is Safe and Effective for Treatment of Progressive EBV Viremia in High-Risk Pediatric Renal Transplant Recipients " resident presentation at the Driscoll Hospital, Corpus Christi TX, May 12, 2011 and poster submitted at the Texas Pediatric Society.
- Remigio C., Marajas K., Harper N., Edelman S., " The URINE Study: Utility of Routine Immunoassay Screening of Drug ENdangered Children in the Emergency Department " resident presentation at the Driscoll Hospital, Corpus Christi TX, May 12, 2011 and poster submitted at the Texas Pediatric Society.
- Tidroski J., Adjetey A., " DETECT Sexual Abuse: Determining Efficacy of Time-Sensitive Evidence Collection Techniques ", resident presentation at the Driscoll Hospital, Corpus Christi TX, May 12, 2011 and poster submitted at the Texas Pediatric Society.
- Xiao N., Ayestaran F. , Teppa B., Fleming K., " Bioequivalence of CellCept® and Generic Mycophenolate Mofetil: A Randomized, Two-period, Crossover Study in Pediatric Renal Transplant Patients", resident presentation at the Driscoll Hospital, Corpus Christi TX, May 12, 2011 and poster submitted at the Texas Pediatric Society.
- Almond S., Al-Akash S., " Comparison of survival rates of adult patients with multiple organ transplants versus pediatric patients ", Dec. , 2010.
- Yulo K., Stafford W., Gupta R., Peterson M., Gandhe R., Conley S., **Guardiola J.**, " Residence near Sources of Petrochemical Pollution and Worsening Respiratory Outcomes in Children of the Nueces and San Patricio Counties ", presentation at the Corpus Christi Pediatric Society, Driscoll hospital, Corpus Christi TX, May 26th 2010. This presentation

was awarded first prize for best hypothesis-driven research project from the Texas Pediatric Society.

- Xiao N., Thyssen E., Subia A., " Telemedicine in Diabetes Control: A Retrospective Cohort Study of GlucoMON(r)-ADMS's Impact on New Onset Type 1 Diabetes Mellitus In Pre-adolescent Patients " , presentation at the Corpus Christi Pediatric Society, Driscoll hospital, Corpus Christi TX, May 26th 2010. This presentation was awarded second place from the Texas Pediatric Society.
- Adebo D., Samraj R. "Complications of surgical closure on ventricular septal defect, age and weight dependent?", presentation at the Corpus Christi Pediatric Society, Driscoll hospital, Corpus Christi TX, May 26th 2010.
- Gowda K., Talakadu M., Sarma R., Rivera R., Rotta A., " Critical appraisal of the Rapid Response Team at DCH and the impact of Quick assessment unit on it ", presentation at the Corpus Christi Pediatric Society, Driscoll hospital, Corpus Christi TX, May 26th 2010. This project won honorable mention for her case presentation in the resident category from the Texas Pediatric Society.
- Anyaegbu E., Al-Akash S., " Significance of Prospective Viral Screening in Pediatric Renal Transplant Recipients ", research presentation at Driscoll Children's Hospital, August, 2009.
- Mercado L., " Misdiagnosis rate of Appendicitis in Driscoll Children's Hospital and the utilization of CT scan ", research presentation at Driscoll Children's Hospital, May 27, 2009.
- Solomon T., " Subjective Fever Assessment by Parents in Neonates " , presented Pediatric Society, Corpus Christi, May 2008.
- Balogh A., Mendiratta M., " Parental Perceptions of Body Proportions in Children and Food Portions Sizes for Children " presented to the Pediatric Society, Corpus Christi TX, May 23, 2007.

COMMUNITY SERVICE

- Participation as a judge in a debate tournament held at Gregory Portland High School. (October 30, 2010).
- Participation as a member of the Facilities Steering and planning committee at the Gregory Portland Independent School District. This committee issued recommendations regarding the future facilities of the GP school district. Gregory-Portland ISD, 608 College Street, Portland, TX 78374, (361) 777-1091. (November 2007).