

*Institute of Mathematical Sciences***Graduate Math Dissertations**

Henok **Abebe** 2002
Modeling the Current-Voltage (I-V) Characteristics of the MOSFET Device with Quantum Mechanical Effects due to Thin Oxide near 'Si/SiO₂' Interface using Asymptotic Methods
(JDP with CSULB) Advisor: Ellis Cumberbatch

Mohammad **Abouali** 2014
Investigating Castillo-Grone's Mimetic Difference Operators in Development of Geophysical Fluid Dynamics Models Implemented on GPGPUs
(JDP with SDSU) Advisor: Jose Castillo

Sajja **Akhter** 2013
Finding a Novel Way for Fast Sequence Alignment and Exploiting Information Theory in Bacterial Genomes and Complete Phages
(JDP with SDSU) Advisor: Robert Edwards

Martin **Ambrose** 2011
Adaptive Monte Carlo Algorithms for Continuous and Discrete Transport Problems
Advisor: Jerome Spanier

Florent **Angly** 2010
A Computational Workflow for the Estimation of Environmental Viral Diversity in Metagenomes
(JDP with SDSU) Advisor: Forest Rohwer

Yontha **Ath** 2000
Stochastic Properties of Uniformly Optimally Reliable Networks (and their Graphs)
Advisors: Milton Sobel (UC Santa Barbara)

John **Aven** 2010
Stochastic Dynamics in Coupled Bistable Systems with Applications to Sensor Devices
(JDP with SDSU) Advisor: Visarath In

Dariouch Herve **Babai** 1995
Models of HIV Mutations and Interaction with the Immune System using Differential Equations: Coupling "Diffusion," Specific and Global Interaction
Advisor: Kenneth Cooke

Eunsil **Baik** 2012
Dynamics of Two Components Bose-Einstein Condensates
(JDP with SDSU) Advisor: Ellis Cumberbatch

Carlos **Bazán** 2009
PDE-Based Image and Structure Enhancement for Electron Tomography of Mitochondria
(JDP with SDSU) Advisor: Peter Blomgren

Joseph **Beasley** 2008
Performance Feedback and Control of Solar Concentrators using Wave Front Sensing Techniques
(JDP with CSULB) Advisor: Hen-Geul Yeh

Steven F. **Bellenot** 1974
Completeness and Reflexivity Properties in Topological Vector Spaces using Standard and Nonstandard Methods
Advisor: Sandy Grabiner

Frank **Bergmann** 2010
An Integrative Approach to Modeling in Systems Biology
(JDP with KGI) Advisor: Ali Nadim

Susan Anne Elizabeth **Berggren** 2012
Computational and Mathematical Modeling of Coupled Superconducting Quantum Interference Devices
(JDP with SDSU) Advisor: Antonio Palacios

Eric **Besnard** 1997
Prediction of High Lift Flows with Separation
(JDP with CSULB) Advisor: Tuncer Cebeci

Ashish **Bhan** 2004
Structure of Gene Expression Networks Derived from Microarray Time Series Data
Advisor: Greg Dewey

Joris **Billen** 2012
Simulated Associating Polymer Networks
(JDP with SDSU) Advisor: Arlette Baljon

David Atwood Bliss	2012	Jerry Chen	2013
<i>Periodic Boundary Value Problems and the Dancer-Fucik Spectrum Under Conditions of Resonance</i>		<i>Role of the MicroRNA miR-124 in the Regulatory Network Governing PNS Development in Ciona Intestinalis</i>	
Advisor: Adolfo Rumbos		(JDP with SDSU) Advisor: Robert Zeller	
Theodoros Spyridon Bolis	1971	Paul O. Chelson	1976
<i>Differentiable Nuclear Manifolds</i>		<i>Quasi-Random Techniques for Monte Carlo Methods</i>	
Advisor: Robert James		Advisor: Jerome Spanier	
Minh Bui	2005	Michael R. Chiaro	1977
<i>Linear Phase Orthogonal Filter Bank Constructions with Applications to Image and Geometric Approximations</i>			
(JDP with CSULB) Advisor: Nick Panagiotacopoulos		Todd Coburn	2010
David Caballero	2011	<i>Optimization: Nurbs and the Quasi-Newton Method</i>	
<i>Discrete Variable Representation of the Angular Variables in Quantum Three-Body Scattering</i>		(JDP with CSULB) Advisor: Ortwin Ohtmer	
(JDP with CSULB) Advisor: Alfonso Rueda		Cherlyn Lee Converse	1992
Todd Cadwallader-Olsker	2007	<i>Lower Bounds for the Maximum Number of Stable Pairings for the General Marriage Problem Based on the Latin Marriage Problem</i>	
<i>Proof Schemes and Proof Writing</i>		Advisor: Henry A. Krieger	
Advisor: John Angus		Jack M. Cuzick	1976
Ronald Caplan	2012	<i>On the Moments of the Number of Curve Crossings by a Stationary Gaussian Process</i>	
<i>Study of Vortex Ring Dynamics in the Nonlinear Schrodinger Equation Utilizing GPU-Accelerated High-Order Compact Numerical Integrators</i>		Advisor: Jerome Spanier	
(JDP with SDSU) Advisor: Ricardo Carretero		Yousef Daneshbod	2006
Juan Cepeda-Rizo	2006	<i>Mathematical Models in Microfluidics: Capillary Electrophoresis and Sessile Drop Physics</i>	
<i>Solid and Fluid Mechanics Case Studies in Advanced Electronic Packaging</i>		Advisor: Ali Nadim	
(JDP with CSULB) Advisor: Hsien-Yang Yeh		Dany De Cecchis	2012
Dwayne Chambers	2011	<i>Development of a Parallel Coupler Library with Minimal Inter-Process Synchronization for Large-scale Computer Simulations</i>	
<i>Topological Symmetry Groups of Complete Graphs</i>		(JDP with SDSU) Advisor: Jose Castillo	
Advisor: Erica Flapan		Monica de Pass	2006
Nicolas Chaumont	2014	<i>Wavelet Feature Extraction of High-Range Resolution Radar Profiles using Generalized Gaussian Distributions for Automatic Target Recognition</i>	
<i>Frombrains to populations: Modeling Animal Interactions with their Environment</i>		Advisor: John Angus	
(JDP with KGI) Advisor: Animesh Ray		Mohamed Osman El-Doma	1986
Xiaoyu Che	2013	<i>Analysis of Nonlinear Integra-Differential Equations Arising in Age-Dependent Epidemic Models</i>	
<i>Joint Modeling and Analysis of Recurrent and Terminal Events</i>		Advisor: Stavros Busenberg	
Advisor: John Angus		Azzam Elshihabi	1997
Aisha Najera Chesler	2015	<i>Disturbance Decoupling with Stability for Nonlinear Systems using Static/Output Feedback: A Geometric Approach</i>	
<i>Non-Linear Analysis and Modeling of FHR and ECOG: Predicting Fetal Distress in Labor</i>		(JDP with CSULB) Advisor: Fumio Hamano	
Advisor: Ami Radunskaya			

Claudia Rangel Escareno 2003 <i>Modeling Biological Responses Using Gene Expression Profiling and Linear Dynamical Statistical Models</i> Advisors: John Angus and David Wild (KGI)	Chris Giles Graham 1996 <i>Cooperative Solution Concepts for Multi-Sided Assignment Games</i> Advisor: William F. Lucas
Mohammad (Al Ahmad) Eyadat 2003 <i>Comparative Performance Evaluation of Practical Digital Watermark Embedded Schemes</i> (JDP with CSULB) Advisors: Samir Chatterjee, Ali Nadim, Dar-Biau Liu	Gregory Green 1992 <i>Confidence Bounds on Functions of Parameters</i> Advisor: Janet Myhre
Weifu Fang 1990 <i>Identification of Transistor Contact Resistivity</i> Advisors: Ellis Cumberbatch and Stavros Busenberg	Melodie Hallett 2015 <i>Novel Random Forest and Variable Importance Methods for Correlated Survival Data, with Applications to Tooth Prognosis</i> (JDP with SDSU) Advisor: Juanjuan Fan
Katherine Fedorchuk 2005 <i>Condensed History Methods for Monte Carlo Solutions of Photon Transport Problems</i> Advisor: Jerome Spanier	Hamza Abid-ali Hamza 1997 <i>Multi-Person Cooperative Games: The Nucleoli Approach Assignment Games</i> Advisor: William F. Lucas
Michael B. Franklin 2013 <i>Electrowetting-Based Microfluidics: Modeling and Simulation</i> Advisor: Ali Nadim	Carole Hayakawa 2001 <i>Perturbation Monte Carlo Methods for the Solution of Inverse Problems</i> Advisor: Jerome Spanier
Michael E. Frantz 1995 <i>On the Interaction of a Cold Front with a Mountain Ridge</i> Advisor: Ellis Cumberbatch	David Heckman 2014 <i>Variations on Markov Chain Monte Carlo Methods: Continuous and Discrete Optimization of Scheduling Problems</i> Advisor: Alpan Raval
Jesse Peter Frumkin 2012 <i>Induction of Chromosome Instability by Gene Dosage and Over-Expression in <i>Saccharomyces Cerevisiae</i></i> Advisor: Animesh Ray	Susan Kay Herring 1992 <i>Statistical Tests for Stochastic Dominance</i> Advisor: Henry A. Krieger
Samuel H. Fryer 1988 <i>Mathematical Models of Typhoid Fever</i> Advisor: Kenneth L. Cooke	Huy Hoang 2002 <i>Experimental and Numerical Investigations of Steady Turbulent Jets from Round Ribbed Tubes</i> (JDP with CSULB) Advisor: Hamid Rahai
Cristina Garcia-Cardona 2013 <i>Multiclass Learning on Graphs: Diffuse Interface Models and Beyond</i> (JDP with SDSU) Advisor: Allon Percus	Christopher Hovick 2002 <i>Statistical and Structural Dynamic Analysis of the Earthman Perimeter Measure of Tooth and Implant and Damping Capacity</i> (JDP with CSULB) Advisors: Ortwin Ohtmer and John Angus
Scott Gasner 2006 <i>Cellular Pattern Formation and Noise in $O(2)$ Symmetric Systems</i> Advisor: Peter Blomgren	Wenzhang Huang 1990 <i>Studies in Differential Equations and Applications</i> Advisor: Kenneth L. Cooke
Ruben Jeffrey Glueck 2013 <i>Pseudo-Spectral and Kronecker Product Methods for Fourth Order Partial Differential Equations</i> Advisor: Ali Nadim	(Anthony) Kwok Hui 2009 <i>Risk Analysis of Software Development using Bayesian Belief Network and Non-Linear Programming Methods</i> (JDP with CSULB) Advisors: Dar-Biau Liu & Alpan Raval

Alice A. Huffman	1975	Hieu Le	2004
<i>Lifting Isomorphisms Between l-algebras of f-algebras</i>		<i>A Method to Detect Single and Multiple Delamination Problems using a Combined Neural Network Technique and Genetic Algorithm Optimization</i>	
Advisor: Melvin Henriksen		(JDP with CSULB) Advisor: Ellis Cumberbatch	
Vigen Isayan	2010	Steven Lewis	2007
<i>t-copula Based Credit Risk Modeling in a Network Economy</i>		<i>Bayesian Parameter and Order Estimation in Profile Hidden Markov Models</i>	
Advisor: Henry Schellhorn		Advisor: Alpan Raval	
Thomas E. Iverson	1975	Liming Li	1995
<i>Extensions of the Theory of the Fractional Calculus with an Application</i>		<i>Quasi-Monte Carlo Methods for Transport Equations</i>	
Advisor: Jerome Spanier		Advisor: Jerome Spanier	
Sammuel Jalali	2012	Alfonso Limon	2009
<i>A New Approach in Blind Equalization of Multipath Wireless Channels</i>		<i>A Multilevel Framework for PDEs whose Solution Exhibits Fast Transitions</i>	
(Joint with CSULB) Advisor: Rajendra Kumar		(JDP with SDSU) Advisor: Ellis Cumberbatch	
Richard L. Jow	1983	Aggie Gloria Ho Liu	1978
<i>Some Contributions to the Theory of Random Sets</i>		<i>Trees, Tree-Like Structures, and Extreme Points in Banach Spaces</i>	
Advisor: Richard Vitale		Advisor: Robert James	
Khalil Antoun Kairouz	2002	Zheng Liu	2014
<i>Numerical and Experimental Investigations of a Turbulent Junction Flow with Upstream Ribbed Surface</i>		<i>A Bond Option Pricing Formula in the Extended CIR Model</i>	
(JDP with CSULB) Advisor: Hamid R. Rahai		Advisor: Henry Schellhorn	
Alice M. King	1975	Shinen Lo	2012
Rong Kong	1999	<i>A Fire Spread Model Using Level Set Methods</i>	
<i>Transport Problems and Monte Carlo Methods</i>		(JDP with CSULB) Advisor: Burkhard Englert	
Advisor: Jerome Spanier		Patrick Longhini	2005
Yongzeng Lai	1999	<i>Nonlinear Dynamics Design and Operation of Advanced Magnetic Sensors</i>	
<i>Monte Carlo and Quasi-Monte Carlo Methods and their Applications</i>		(JDP with SDSU) Advisor: Antonio Palacios	
Advisor: Jerome Spanier		Gabriel Lopez-Garza	2003
John Patrick Lambert	1982	<i>Resonance and Strong Resonance for Semilinear Elliptic Equations in RN</i>	
<i>Some Developments in Optimal and Quasi-Monte Carlo Quadrature and a New Outlook on a Classical Chebyshev Problem</i>		Advisor: Adolfo Rumbos	
Advisor: Jerome Spanier		Haisheng Luo	1995
Suzanne L. Larson	1984	<i>Curve Estimation and Graduation</i>	
<i>Convexity Conditions on a Class of Lattice Ordered Rings</i>		Advisor: John Angus	
Advisor: Melvin Henriksen		Barry Luong	2003
Eugene Lavretsky	1999	<i>Evaluation Modeling in Performance and Resource Allocation for Residential Broadband Gateways</i>	
<i>Neural Networks for Function Approximation and Control System Design</i>		(JDP with CSULB) Advisor: John. Angus	
Advisor: Robert Williamson			

Jose Alberto **Luzardo-Flores** 1997
Neural Networks for Approximation and Control of Continuous Time Nonlinear Systems
(JDP with CSULB) Advisor: A. G. Chassiakos

Jose **Macias** 1998
An Approximation Method for Solving Non-Homogeneous Wave Equations and Related Inverse Problems
Advisor: Ellis Cumberbatch

Earl H. **Maize** 1981
Contributions to the Theory of Error Reduction in Quasi-Monte Carlo Methods
Advisor: Jerome Spanier

Kun **Marhadi** 2010
Investigation of Progressive Failure Robustness and Alternate Load Paths for Damage Tolerant Structures
(JDP with SDSU) Advisor: Satchi Venkataraman

Raymond **Moberly** 2012
Quantization of a Low-Density Parity-Check (LDPC) Decoder
(JDP with SDSU) Advisor: Michael E. O'Sullivan

Philip W. **McCartney** 1978
On Some Banach Space Properties Related to the Radon-Nikodým Property
Advisor: Robert James

Jeffrey Louis **Molony** 1997
Studies of the Geometric Theory: Nonlinear Dynamical Systems
Advisor: Courtney Coleman

Imad **Muhi El-Ddin** 2009
Watermarking Schemes Robust against Affine Attacks: Applied Mathematics, An Application of Digital Image Processing in Information Technology
Advisor: Hedley Morris

Susan **Nachawati** 2013
DNA Visualization with Sacks Spiral Method: An Application in Genomic Engineering
(JDP with CSULB) Advisor: Forouzan Golshani

Hai Ah **Nam** 2010
Ab Initio Nuclear Shell Model Calculations of Some Light Nuclei with a Three-Nucleon Force
(JDP with SDSU) Advisor: Calvin Johnson

Rafael **Navarro** 2012
Dynamical Properties of Bose-Einstein Condensates
(JDP with SDSU) Advisor: Ricardo Caretero

Rodrigo **Negreiros** 2010
Numerical Study of the Properties of Compact Stars
(JDP with SDSU) Advisor: Fridolin Weber

Dan Manh **Nguyen** 2002
An Unified Automated Approach to Surface Approximation via Finite Element and Non Uniform Rational B-spline Methods
(JDP with CSULB) Advisors: Ortwin Ohtmer and Ellis Cumberbatch

Dong **Nguyen** 2000
Reliability Modeling and Evaluation in Computer Networks and Distributed Systems
(JDP with CSULB) Advisors: John Angus and Dar-Biau Liu

James **Nguyen** 2009
A Hardware Implementation of the Level Set Method for Robotic Path Finding with Multiple Obstacle Avoidance
(JDP with CSULB) Advisor: Ali Nadim

Tien Manh **Nguyen** 1995
Mathematical Modeling and Digital Signal Processing Techniques for Modern Digital Communication Systems
(JDP with CSULB) Advisor: Hen-Geul Yeh

Kieran **Nolan** 2009
Meta-Scheduling of Level-Set Methods in a Grid Computing Environment
(JDP with CSULB) Advisors: Dar-Biau Liu & Ali Nadim

Giray **Ökten** 1997
Contributions to the Theory of Monte Carlo and Quasi-Monte Carlo Methods
Advisor: Jerome Spanier

Kim Joseph **Olszewski** 1998
Concatenated Reed-Solomon and Reed-Muller Codecs with Blind Adaptation for CDMA Antenna Array Systems
(JDP with CSULB) Advisor: R. Kumar

Fred **Ovadia** 1978
Contributions to the Theory of Fractional Difference Operators
Advisor: Jerome Spanier

Christopher **Paolini** 2007
A Service-Oriented Architecture for Thermochemical Computation
(JDP with SDSU) Advisor: Subrata Bhattacharjee

Jeho **Park** 2009
Applications of Cluster Systems
(JDP with CSULB) Advisor: John Angus

Claudia L. Pinter 1987 <i>The Average Error from the Approximation of Functions and Integrals</i> Advisor: Robert Williamson	Adeline Schmitz 2007 <i>Constructive Neural Networks for Function Approximation and their Application to CFD Shape Optimization</i> (JDP with CSULB) Advisor: Hamid Hefazi
Carlos Orrala Poveda 2004 <i>Numerical and Experimental Investigations of Two Side-by-Side Turbulent Jets in a Cross Flow</i> (JDP with CSULB) Advisor: Hamid R. Rahai	Henry J. Schultz 1974 Banach and Frechet Algebras of Power Series
Jerry Emmett Purcell 1995 <i>Allpass Filters</i> (JDP with CSULB) Advisor: Ellis Cumberbatch	Robert Schmeider 2012 <i>A Framework for Identifying Antibiotic Resistance in the Human Microbiome</i> (JDP with SDSU) Advisor: Robert Edwards
Leandro Recova 2014 <i>Applications of Morse Theory to Semilinear Elliptic Boundary Value Problems</i> Advisor: Adolfo Rumbos	Victor Seguritan 2013 <i>Neural Network Predictions of Protein Function</i> (JDP with SDSU) Advisor: Anca Segall
Norman Richert 1981 <i>Diophantine Approximation of Complex Numbers</i> Advisor: Jerome Spanier	John Sepikas 2011 <i>Enhanced Lattice Methods for High Dimensional Quadrature Applications</i> Advisor: Jerome Spanier
Beltran Rodriguez-Brito 2010 <i>A Metagenomic Examination of a Solar Saltern in Southern California</i> (JDP with SDSU) Advisor: Forest Rohwer	Lucie Sharpsten 2013 <i>Predicting Glaucoma Progression Using Random Forests for Correlated Binary Response Based on Longitudinally Collected Standard Automated Perimetry Data</i> (JDP with SDSU) Advisor: Juanjuan Fan
Otilio Rojas Ulacio 2009 <i>Modeling of Rupture Propagation under Different Friction Laws using High-Order Mimetic Operations</i> (JDP with SDSU) Advisors: Steven Day & José Castillo	Jody Hewychun Shu 2013 <i>Autonomous Voice and Motion Controlled Video Camera System for Instructional Technology</i> Advisor: John Angus
Mary Royston 1995 <i>Three-Sided Assignment Games</i> Advisor: William F. Lucas	Jean Suarez Solano 2015 <i>Regularization of Singular Sources for PSIC Computations of Particle-Laden Flows with Shocks</i> (JDP with SDSU) Advisor: Gustaaf Jacobs
Eduardo Sanchez 2015 <i>Mimetic Finite Differences and Parallel Computing to Stimulate Carbon Dioxide Subsurface Mass Transport</i> (JDP with SDSU) Advisor: Jose Castillo	Xun Sun 2015 <i>On the Geometry of Cyclic and Permutation Invariant Lattices</i> Advisor: Leonid Fukshansky
Thomas R. Savage 1977 <i>On Some Problems in the Theory of Von Neumann Regular Rings</i> Advisor: Melvin Henriksen	Hiroki Sunahata 2006 <i>Interaction of the Quantum Vacuum with an Accelerated Object and its Contribution to Inertia Reaction Force</i> (JDP with CSULB) Advisor: Alpan Raval
Robert Armin Schmieder 2012 <i>A Framework for Identifying Antibiotic Resistance in the Human Microbiome</i> (JDP with SDSU) Advisor: Robert Edwards	Jennifer M. Switkes 2000 <i>The Geographic Mosaic Theory in Relation to Coevolutionary Interactions between Two Species</i> Advisor: Michael Moody

Allen **Teagle-Hernandez** 2013
Very Efficient Numerical Solutions via the "Mehrstellen" Method in 1D, 2D, and 3D for Complex Differential Equations Demonstrated for Acoustics and Related Fields
(JDP with CSULB) Advisor: Ellis Cumberbatch

Ying **Teng** 2005
Modeling and Simulation of Aeroservoelastic Control with Multiple Control Surfaces Using μ -Method
(JDP with CSULB) Advisor: H. P. Chen

Mary **Thomas** 2014
Parallel Implementation of the Curvilinear Ocean and Atmospheric (UCOAM) Model and Supporting Computational Environment
(JDP with SDSU) Advisor: Jose Castillo

David Torres **Barba** 2011
Assessment of Functional Activity in Isolated Cardiomyocytes using Computational Methods
(JDP with SDSU) Advisor: Paul Paolini

Phuong Yen Thi **Tran** 1996
Asymptotic Reliability of the Hypercube and the D-Octahedral Networks
Advisor: William F. Lucas

John C. **Tripp** 1975
Multiplications on Banach Spaces
Advisor: Sandy Grabiner

Gregg **Turner** 1991
Spectral Conditions for Oscillations and Stabilization of Systems of Differential Equations with Piecewise Constant Arguments
Advisor: Kenneth Cooke

Jorge Xicotencatl **Velasco-Hernandez** 1991
Models of Chagas' Disease : Stability, Thresholds and Asymptotic Behavior
Advisor: Stavros Busenberg

Diana W. **Verzi** 2001
A Mathematical Description of Diagrammatic Models for Structural Changes in Dendritic Spines
Advisors: Ellis Cumberbatch, Steve Baer (ASU)

Minaya **Villasana de Villagas** 2001
A Delay Differential Equation Model for Tumor Growth
Advisor: Ami Radunskaya

Michael **Vodhanel** 2011
Problems in GPS Accuracy
Advisor: John Angus

Rudolf **Volz** 1982
Global Asymptotic Stability of a Periodic Solution to an Epidemic Model
Advisor: Kenneth Cooke

Huy Khanh **Vu** 2011
A Coupled Vibratory Gyroscope Network with Bi-directional, Uni-directional, And Direct Coupling
(JDP with SDSU) Advisors: Antonio Palacios and Visarath In

Hsi-Ching **Wang** 2011
Z' of Gauged Baryon and Lepton Numbers at the Large Hadronic Collider
(JDP with CSULB) Advisor: Subhash Rajpoot

Jean H.M. **Wang** 1981
Error Reduction Techniques for Monte Carlo Neutron Transport Calculations
Advisor: Jerome Spanier

Jonathan Louis **Wilson** 2013
Advancements in the Elicitation, Aggregation, and Forecasting of Probability Distributions Under Time Constraints
(JDP with SDSU) Advisor: Kristin Duncan

Chao-Jen **Wong** 2005
An Embedding Method for Simulation of Immobilized Enzyme Kinetics and Transport in Sessile Hydrogen Drops
Advisor: Ali Nadim

Binghui **Wu** 1992
Integrated Semigroups of Bounded Linear Operations and their Applications to Inverse Problems
Advisor: Stavros Busenberg

Kaiqi **Xiong** 1997
Analysis of a Class of Nonlinear Dynamical Systems and Applications to Neural Networks
Advisors: Jerome Spanier and Ellis Cumberbatch

Dong **Xu** 2008
Femvib, An Ab Initio Multi-Dimensional Solver for Probing Vibrational Dynamics in Polyatomic Molecules and Free Radicals
(JDP with SDSU) Advisor: Andrew Cooksy

Shujing **Xu** 2014
Effects of History and Lift Force on Particle Trajectories in Oscillatory Rotating Fluids
Advisor: Ali Nadim

Thomas M. **Zachariah** 1984
Stochastic and Deterministic Sets
Advisor: Richard A. Vitale

Peter Zajac	2013
<i>Globally Accessible Finite Element Based Web Solver for the Vibrational Schrodinger Equation and Application to HC3O and ZnCl2+</i>	
(JDP with SDSU) Advisor: Andrew Cooksy	

Sara Zarei	2012
<i>Mathematical Modeling of Cystic Fibrosis</i>	
(JDP with SDSU) Advisor: Peter Salamon	

Frederick P. Zemke	1975
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Ming Zhou	2010
<i>A Mathematical Analysis of Vesicle Shapes</i>	
(JDP with CSULB) Advisor: Hsien-Yang Yeh	

Bing Zhu	2008
<i>Computational Modeling and Bifurcation Analysis of Bubbling Fluidized Processes</i>	
Advisor: Antonio Palacios	