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

Shaher Abdallah 2016
General Stability Analysis of Composite Sandwich Plates Under Thermal Load
(JDP with CSULB) Advisor: Hsin-Piao Chen

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

Daniel Akech 2023
On the Symmetric Ideals of Operators and S-Numbers
Advisor: Asuman Aksoy

Sajia 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

Abdulrahman Alansari 2019
Risk Assessment for Marine Construction Projects
(JDP with CSULB) Advisor: Hung Nguyen

Monairah Alansari 2017
Distance in Metric Trees and Banach Spaces
Advisor: Asuman Aksoy

Ahmed Al Fares 2022
On Multiplication Groups of Quasigroups
Advisor: Gizem Karaali

Weaam Alhejaili 2018
A Numerical Study of Steklov Eigenvalue Problems
Advisor: Chiu-Yen Kao

Collins Allan 2018
Probabilistic Microsimulation Modeling of Heterogeneous Traffic Flow
(JDP with CSULB) Advisor: Emelinda Parentela

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)
Advisor: 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
<table>
<thead>
<tr>
<th>Name</th>
<th>Year</th>
<th>Title</th>
<th>Advisor(s)</th>
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<tbody>
<tr>
<td>Mohsen Babaeian</td>
<td>2020</td>
<td>Modeling, Designing and Applying Machine Learning Algorithms for Driver Drowsiness Detection (JDP with CSULB) Advisor: Mohammad Mozumdar</td>
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<td>Behrouz Babakhani</td>
<td>2017</td>
<td>Novel Microstrip Patch Antennas with Frequency Agility, Polarization Reconfigurability, Dual Null Steering Capability and Phased Array Antenna with Beam Steering Performance (JDP with SDSU) Advisor: Satish Sharma</td>
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<tr>
<td>Eunsil Baik</td>
<td>2012</td>
<td>Dynamics of Two Components Bose-Einstein Condensates (JDP with SDSU) Advisor: Ellis Cumberbatch</td>
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<tr>
<td>David Torres Barba</td>
<td>2011</td>
<td>Assessment of Functional Activity in Isolated Cardiomyocytes using Computational Methods (JDP with SDSU) Advisor: Paul Paolini</td>
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<td>Maximilian Baroi</td>
<td>2022</td>
<td>An Exponential Formula for Random Variables Generated by Multiple Brownian Motions (JDP with SDSU) Advisor: Henry Schellhorn</td>
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<td>Carlos Bazán</td>
<td>2009</td>
<td>PDE-Based Image and Structure Enhancement for Electron Tomography of Mitochondria (JDP with SDSU) Advisor: Peter Blomgren</td>
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<td>Joshua Beemer</td>
<td>2020</td>
<td>Ensemble Learning Methods for Educational Data Mining Applications (JDP with SDSU) Advisor: Richard A. Levine</td>
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<tr>
<td>Susan Anne Elizabeth Berggren</td>
<td>2012</td>
<td>Computational and Mathematical Modeling of Coupled Superconducting Quantum Interference Devices (JDP with SDSU) Advisor: Antonio Palacios</td>
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<tr>
<td>Eric Besnard</td>
<td>1997</td>
<td>Prediction of High Lift Flows with Separation (JDP with CSULB) Advisor: Tuncer Cebeci</td>
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<tr>
<td>Ashish Bhan</td>
<td>2004</td>
<td>Structure of Gene Expression Networks Derived from Microarray Time Series Data Advisor: Greg Dewey</td>
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<td>Nasima Bhuiyan</td>
<td>2018</td>
<td>Towards Performance Measure Analysis: Development of a Left Turn Saturation Flow Rate Model at Signalized Intersections (JDP with CSULB) Advisor: Emelinda Parentela</td>
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<tr>
<td>Joris Billen</td>
<td>2012</td>
<td>Simulated Associating Polymer Networks (JDP with SDSU) Advisor: Arlette Baljon</td>
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<tr>
<td>David Atwood Bliss</td>
<td>2012</td>
<td>Periodic Boundary Value Problems and the Dancer-Fucik Spectrum Under Conditions of Resonance (JDP with SDSU) Advisor: Adolfo Rumbos</td>
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<tr>
<td>Angel Boada Velazco</td>
<td>2021</td>
<td>High Order Mimetic Finite Differences on Non-Trivial Problems (JDP with SDSU) Advisor: José Castillo</td>
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<tr>
<td>Theodoros Spyridon Bolis</td>
<td>1971</td>
<td>Differentiable Nuclear Manifolds Advisor: Robert James</td>
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<tr>
<td>Jeremy Bonifacio</td>
<td>2019</td>
<td>Oscillatory Flow Driven by Cavity (JDP with CSULB) Advisor: Hamid Rahai</td>
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<tr>
<td>Name</td>
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<td>Minh Bui</td>
<td>2005</td>
<td>Linear Phase Orthogonal Filter Bank Constructions with Applications to Image and Geometric Approximations</td>
<td>Nick Panagiotacopulos</td>
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<td>David Caballero</td>
<td>2011</td>
<td>Discrete Variable Representation of the Angular Variables in Quantum Three-Body Scattering</td>
<td>Alfonso Rueda</td>
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<td>Todd Cadwallader-Olsker</td>
<td>2007</td>
<td>Proof Schemes and Proof Writing</td>
<td>John Angus</td>
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<td>Peter Calhoun</td>
<td>2017</td>
<td>Novel Random Forest and Variable Importance Methods for Clustered Data</td>
<td>Juanjuan Fan</td>
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<td>Karen Campbell</td>
<td>2017</td>
<td>SEIRscape, an Agent-Based Mosquito-Human Virus Basis of Dengue Risk across Peru and Thailand</td>
<td>C. D. Lin</td>
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<tr>
<td>Ronald Caplan</td>
<td>2012</td>
<td>Study of Vortex Ring Dynamics in the Nonlinear Schrodinger Equation Utilizing GPU-Accelerated High-Order Compact Numerical Integrators</td>
<td>Ricardo Carretero</td>
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<tr>
<td>Juan Cepeda-Rizo</td>
<td>2006</td>
<td>Solid and Fluid Mechanics Case Studies in Advanced Electronic Packaging</td>
<td>Hsien-Yang Yeh</td>
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<td>Dwayne Chambers</td>
<td>2011</td>
<td>Topological Symmetry Groups of Complete Graphs</td>
<td>Erica Flapan</td>
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<td>Nicolas Chaumont</td>
<td>2014</td>
<td>From Brains to Populations: Modeling Animal Interactions with their Environment</td>
<td>Animesh Ray</td>
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<td>Xiaoyu Che</td>
<td>2013</td>
<td>Joint Modeling and Analysis of Recurrent and Terminal Events</td>
<td>John Angus</td>
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<tr>
<td>Paul O. Chelson</td>
<td>1976</td>
<td>Quasi-Random Techniques for Monte Carlo Methods</td>
<td>Jerome Spanier</td>
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<tr>
<td>Aisha Chen</td>
<td>2019</td>
<td>Gait and Postural Analysis in Healthy Young Adults and People with Parkinson’s Disease</td>
<td>Deenila Karishnan, Shadnez Asgari</td>
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<tr>
<td>Jerry Chen</td>
<td>2013</td>
<td>Role of the MicroRNA miR-124 in the Regulatory Network Governing PNS Development in Ciona Intestinalis</td>
<td>Robert Zeller</td>
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<td>Yuan Chen</td>
<td>2019</td>
<td>Free Market on the Freeway</td>
<td>Henry Schellhorn</td>
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<td>Aisha Najera Chesler</td>
<td>2015</td>
<td>Non-Linear Analysis and Modeling of FHR and ECOG: Predicting Fetal Distress in Labor</td>
<td>Ami Radunskaya</td>
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<tr>
<td>Michael R. Chiaro</td>
<td>1977</td>
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<td>Patrick Choi</td>
<td>2016</td>
<td>Optimization of the Principal Eigenvalue of an Elliptic Operator with Application to Heat Conductor</td>
<td>Chiu-Yen Kao</td>
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<tr>
<td>Todd Coburn</td>
<td>2010</td>
<td>Optimization: Nurbs and the Quasi-Newton Method</td>
<td>Ortwin Ohtmer</td>
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<tr>
<td>Cherlyn Lee Converse</td>
<td>1992</td>
<td>Lower Bounds for the Maximum Number of Stable Pairings for the General Marriage Problem Based on the Latin Marriage Problem</td>
<td>Henry A. Krieger</td>
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<tr>
<td>Kevin Cotton</td>
<td>2021</td>
<td>Measuring Machine Learning Model Uncertainty with Applications to Aerial Segmentation</td>
<td>Allon Percus</td>
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</tbody>
</table>
Daniel Cuevas 2018
Bridging the genomic gaps: genome-scale metabolic network tools for bioinformatics analyses
(JDP with SDSU) Advisor: Robert Edwards

Jack M. Cuzick 1976
On the Moments of the Number of Curve Crossings by a Stationary Gaussian Process
Advisor: Jerome Spanier

Yousef Daneshbod 2006
Mathematical Models in Microfluidics: Capillary Electrophoresis and Sessile Drop Physics
Advisor: Ali Nadim

Tuan Dao 2019
Solving the Prandtl Boundary Layer Equation in Fluid Dynamics via Non-Linear Numerical Optimization
(JDP with CSULB) Advisors: Christiane Beyer and Ali Nadim

Paul David 2019
A Riemannian Quotient Structure for Correlation Matrices with Applications to Data Science
Advisor: Weiqing Gu

Dany De Cecchis 2012
Development of a Parallel Coupler Library with Minimal Inter-Process Synchronization for Large-scale Computer
(JDP with SDSU) Advisor: José Castillo

An Do Dela 2021
Multi-Scale Modeling and Sensitivity Analysis in Biological Systems
Advisor: Blerta Shtylla

Vladimir Delengov 2018
Computing Eigenmodes of Elliptic Operators on Manifolds Using Radial Basis Functions
Advisor: Chiu-Yen Kao

Johnny Corbino Delgado 2018
SubFlow: Simulating Geological Storage of CO2 Using Mimetic Operators
(JDP with SDSU) Advisor: José Castillo

Kameryn Denaro 2017
Quantifying Disease Severity of Cystic Fibrosis Using Linear Quantile Mixed Models
(JDP with SDSU) Advisor: Barbara Ann Bailey

Monica de Pass 2006
Wavelet Feature Extraction of High-Range Resolution Radar Profiles using Generalized Gaussian Distributions for Automatic Target Recognition
Advisor: John Angus

Yujia Ding 2021
On Heavy-Tailed Distributions and Big Data
Advisors: John Angus, Qidi Peng, and Weiqing Gu

Son Doan 2020
Optimization in Engineering Applications
(JDP with CSULB) Advisor: Hen-Geul Yeh

Christina Durón 2019
The Distribution of Betweenness Centrality in Exponential Random Graph Models
Advisors: Ami Radunskaya and Johanna Hardin

Mohamed Osman El-Doma 1986
Analysis of Nonlinear Integra-Differential Equations Arising in Age-Dependent Epidemic Models
Advisor: Stavros Busenberg

Omer Eljairi 2020
Preliminary Study of Highway Pavement and Materials
(JDP with CSULB) Advisor: Shadi Saadeh

Azzam Elshihabi 1997
(JDP with CSULB) Advisor: Fumio Hamano

Luis Waldo Escalona Galvis 2020
Guided Wave Actuation for Enhanced Damage Identification in Carbon Fiber Reinforced Polymer Material Using Electrical Resistance Tomography
(JDP with SDSU) Advisor: Satchi Venkataraman

Mohammad (Al Ahmad) Eyadat 2003
Comparative Performance Evaluation of Practical Digital Watermark Embedded Schemes
(JDP with CSULB) Advisors: Samir Chatterjee, Ali Nadim, and Dar-Biau Liu

Weifu Fang 1990
Identification of Transistor Contact Resistivity
Advisors: Ellis Cumberbatch and Stavros Busenberg
Susan Kay Herring 1992
Statistical Tests for Stochastic Dominance
Advisor: Henry A. Krieger

Daniel Herrlin 2016
Forecasting MLB Performance Utilizing a Bayesian Approach in Order to Optimize a Fantasy Baseball Draft
(JDP with SDSU) Advisor: Richard Levine

Huy Hoang 2002
Experimental and Numerical Investigations of Steady Turbulent Jets from Round Ribbed Tubes
(JDP with CSULB) Advisor: Hamid Rahai

Uyen Hoang 2019
Applications of Machine Learning in Cancer Prediction: Renal Cell Carcinoma and Glioblastoma Multiforme
(JDP with SDSU) Advisor: Usha Sinha

Alexander Holland 2019
Modeling and Analysis of Quasi-periodic Signals with Application to Hemodynamics
(JDP with CSULB) Advisors: Ali Nadim and Shadnaz Asgari

Christopher Hovick 2002
Statistical and Structural Dynamic Analysis of the Darthman Periometer Measure of Tooth and Implant and Damping Capacity
(JDP with CSULB) Advisors: Ortwin Ohtmer and John Angus

Wenzhang Huang 1990
Studies in Differential Equations and Applications
Advisor: Kenneth L. Cooke

Alice A. Huffman 1975
Lifting Isomorphisms Between k-Ideals of φ-Algebras
Advisor: Melvin Henriksen

(Anthony) Kwok Hui 2009
Risk Analysis of Software Development using Bayesian Belief Network and Non-Linear Programming Methods
(JDP with CSULB) Advisors: Dar-Biau Liu and Alpan Raval

Vigen Isayan 2010
t-copula Based Credit Risk Modeling in a Network Economy
Advisor: Henry Schellhorn

Thomas E. Iverson 1975
Extensions of the Theory of the Fractional Calculus with an Application
Advisor: Jerome Spanier

Afrooz Jahedi 2020
Novel Random Forest Methods and Algorithms for Autism Spectrum Disorders Research
(JDP with SDSU) Advisors: Ralph A. Muller and Juanjuan Fan

Samuel Jalali 2012
A New Approach in Blind Equalization of Multipath Wireless Channels
(JDP with CSULB) Advisor: Rajendra Kumar

Saeid Janani 2020
Numerical Simulations of Multi-Conﬁned Jets in Crossﬂow at Supercritical Pressure
(JDP with CSULB) Advisor: Hamid Rahai

Zhixuan Jia 2023
Optimization and Machine Learning Applied to Inverse Problems in Partial Differential Equations
Advisor: Ali Nadim and Marina Chugunova

Sixian Jin 2017
Martingale Representation Theorems Based on Malliavin Calculus
Advisor: Henry Schellhorn

Casey Johnson 2020
Spectral Analysis of Complex Dynamical Systems
Advisor: Marina Chugunova

Kevin Joiner 2018
Modeling Phage-Bacteria Dynamics in Mucus: An Agent Based Approach to Phage Therapy
(JDP with SDSU) Advisor: Antonio Luque

Richard L. Jow 1983
Some Contributions to the Theory of Random Sets
Advisor: Richard Vitale

Khalil Antoun Kairouz 2002
Numerical and Experimental Investigations of a Turbulent Junction Flow with Upstream Ribbed Surface
(JDP with CSULB) Advisor: Hamid R. Rahai
Martin Kandes 2016
Modeling the Effects of Inertial Forces on Bose-Einstein Condensates in Rotating Frames of Reference
(JDP with SDSU) Advisor: Ricardo Carretero

Di Kang 2018
Modeling and Analysis of Thin Viscous Liquid Films in Spherical Geometry
Advisors: Ali Nadim and Marina Chugunova

Priscilla Kelly 2019
Ultrashort Pulse Shaping Multilayered Aluminum-doped Zinc Oxide Metamaterials
(JDP with SDSU) Advisor: Lyuba Kuznetsova

Alice M. King 1975

Gene Ko 2015
Computational Approaches for Descriptor Optimization and Model Development for HIV-1 Drug Design
(JDP with SDSU) Advisor: Sunil Kumar

Darin Koblick 2017
Re-Purposing the Advanced Solar Photon Thruster as a Constellation of Solar Reflectors to Track Debris in Geosynchronous Earth Orbit
(JDP with CSULB) Advisor: Praveen Shankar

David Kogan 2022
On Coherence and the Geometry of Certain Families of Lattices
Advisor: Lenny Fukshansky

Rong Kong 1999
Transport Problems and Monte Carlo Methods
Advisor: Jerome Spanier

Yongzeng Lai 1999
Monte Carlo and Quasi-Monte Carlo Methods and their Applications
Advisor: Jerome Spanier

John Patrick Lambert 1982
Some Developments in Optimal and Quasi-Monte Carlo Quadrature and a New Outlook on a Classical Chebyshev Problem
Advisor: Jerome Spanier

Suzanne L. Larson 1984
Convexity Conditions on a Class of Lattice Ordered Rings
Advisor: Melvin Henriksen

Eugene Lavretsky 1999
Neural Networks for Function Approximation and Control System Design
Advisor: Robert Williamson

Hieu Le 2004
A Method to Detect Single and Multiple Delamination Problems using a Combined Neural Network Technique and Genetic Algorithm Optimization
(JDP with CSULB) Advisor: Ellis Cumberbatch

Jeffrey Ledahl 2016
Bayesian Join Modeling of Longitudinal Visual Field Data with Correlated Binary and Survival Outcomes
(JDP with SDSU) Advisor: Richard Levine

Kimberly Leung 2016
Stochastic Models for Precipitable Water in Convection
(JDP with SDSU) Advisor: Samuel Shen

Steve Lewis 2007
Bayesian Parameter and Order Estimation in Profile Hidden Markov Models
Advisor: Alpan Raval

Liming Li 1995
Quasi-Monte Carlo Methods for Transport Equations
Advisor: Jerome Spanier

Luo Li 2020
Causal Effect Random Forest of Interaction Trees for Learning Individualized Treatment Regimes in Observational Studies: With Applications to Education Study Data
(JDP with SDSU) Advisor: Juanjuan Fan

Alfonso Limon 2009
A Multilevel Framework for PDEs whose Solution Exhibits Fast Transitions
(JDP with SDSU) Advisor: Ellis Cumberbatch

Aggie Gloria Ho Liu 1978
Trees, Tree-Like Structures, and Extreme Points in Banach Spaces
Advisor: Robert James
Chen Liu 2016
Monte Carlo Algorithms for American Option Pricing: An Analysis of Convergence Rates and the Application for Backward Taylor Expansion on Variance Reduction Techniques
Advisor: Henry Schellhorn

Zheng Liu 2014
A Bond Option Pricing Formula in the Extended CIR Model
Advisor: Henry Schellhorn

Shinen Lo 2012
A Fire Spread Model Using Levet Set Methods
(JDP with CSULB) Advisor: Burkhard Englert

Patrick Longhini 2005
Nonlinear Dynamics Design and Operation of Advanced Magnetic Sensors
(JDP with SDSU) Advisor: Antonio Palacios

Gabriel Lopez-Garza 2003
Resonance and Strong Resonance for Semilinear Elliptic Equations in RN
Advisor: Adolfo Rumbos

Haisheng Luo 1995
Curve Estimation and Graduation
Advisor: John Angus

Barry Luong 2003
Evaluation Modeling in Performance and Resource Allocation for Residential Broadband Gateways
(JDP with CSULB) Advisor: John Angus

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

Anna Ma 2018
Stochastic Iterative Algorithms for Large-scale Data
(JDP with SDSU) Advisor: Deanna Needell

José 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

Barah Makhdum 2023
Dynamics and Equilibria of N Point Charges on a 2D Ellipse or a 3D Ellipsoid
Advisor: Ali Nadim

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

Sean Matz 2020
Detection and Localization of Linear Features Based on Image Processing Methods
Advisor: Marina Chugunova

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

Matthew Michal 2016
Analytical and Numerical Analysis of Lubrication Coating Flow Models
Advisor: Marina Chugunova

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

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

Hana Moshirvaziri 2019
Prediction of the Outcome in Cardiac Arrest Patients Undergoing Hypothermia Using EEG Wavelet Entropy
(JDP with CSULB) Advisor: Shadnaz Asgari

Imad Muhi El-Ddin 2009
Advisor: Hedley Morris
<table>
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<tr>
<th>Student Name</th>
<th>Year</th>
<th>Title</th>
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<th>Institute</th>
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<tr>
<td>Susan Nachawati</td>
<td>2013</td>
<td>DNA Visualization with Sacks Spiral Method: An Application in Genomic Engineering</td>
<td>(JDP with CSULB) Advisor: Forouzan Golshani</td>
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<tr>
<td>Hai Ah Nam</td>
<td>2010</td>
<td>Ab Initio Nuclear Shell Model Calculations of Some Light Nuclei with a Three-Nucleon Force</td>
<td>(JDP with SDSU) Advisor: Calvin Johnson</td>
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<tr>
<td>Rafael Navarro</td>
<td>2012</td>
<td>Dynamical Properties of Bose-Einstein Condensates</td>
<td>(JDP with SDSU) Advisor: Ricardo Careterro</td>
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<tr>
<td>Dan Manh Nguyen</td>
<td>2002</td>
<td>An Unified Automated Approach to Surface Approximation via Finite Element and Non Uniform Rational B-spline Methods</td>
<td>(JDP with CSULB) Advisors: Ortwin Ohtmer and Ellis Cumberbatch</td>
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<td>Dong Nguyen</td>
<td>2000</td>
<td>Reliability Modeling and Evaluation in Computer Networks and Distributed Systems</td>
<td>(JDP with CSULB) Advisors: John Angus and Dar-Biau Liu</td>
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<tr>
<td>Giray Ökten</td>
<td>1997</td>
<td>Contributions to the Theory of Monte Carlo and Quasi-Monte Carlo Methods</td>
<td>Advisor: Jerome Spanier</td>
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<tr>
<td>Kim Joseph Olszewski</td>
<td>1998</td>
<td>Concatenated Reed-Solomon and Reed-Muller Codecs with Blind Adaptation for CDMA Antenna Array Systems</td>
<td>(JDP with CSULB) Advisor: R. Kumar</td>
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<tr>
<td>Fred Ovadia</td>
<td>1978</td>
<td>Contributions to the Theory of Fractional Difference Operators</td>
<td>Advisor: Jerome Spanier</td>
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<td>Wen Pan</td>
<td>2019</td>
<td>Data Management on Non-volatile Memory: from Mobil Applications to Large-scale Databases</td>
<td>(JDP with SDSU) Advisor: Tao Xie</td>
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<tr>
<td>Christopher Paolini</td>
<td>2007</td>
<td>A Service-Oriented Architecture for Thermochemical Computation</td>
<td>(JDP with SDSU) Advisor: Subrata Bhattacharjee</td>
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<tr>
<td>Jeho Park</td>
<td>2009</td>
<td>Applications of Cluster Systems</td>
<td>(JDP with CSULB) Advisor: John Angus</td>
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<tr>
<td>Moein Parsinia</td>
<td>2019</td>
<td>Distributed Mode Selection and Cross-layer Routing Protocol for FDD Nodes in Mobile Ad Hoc Networks</td>
<td>(JDP with SDSU) Advisor: Sunil Kumar</td>
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</tbody>
</table>
Julien Pierret 2018
*Climate Data Computing: Optimal Interpolation, Averaging, Visualization and Delivery*
(JDP with SDSU) Advisor: Samuel Shen

Claudia L. Pinter 1987
*The Average Error from the Approximation of Functions and Integrals*
Advisor: Robert Williamson

Carlos Orrala Poveda 2004
*Numerical and Experimental Investigations of Two Side-by-Side Turbulent Jets in a Cross Flow*
(JDP with CSULB) Advisor: Hamid R. Rahai

Jerry Emmett Purcell 1995
*Allpass Filters*
(JDP with CSULB) Advisor: Ellis Cumberbatch

Saravana Raman 2017
*Simulation of Plethysmographic Environment in Pulmonary Function Studies*
(JDP with CSULB) Advisor: Christopher Druzgalski

Claudia Rangel Escareno 2003
*Modeling Biological Responses Using Gene Expression Profiling and Linear Dynamical Statistical Models*
Advisors: John Angus and David Wild (KGI)

Nan Rao 2019
*Cluster Analysis on Stochastic Processes*
Advisors: Qidi Peng and Allon Percus

Leandro Recova 2014
*Applications of Morse Theory to Semilinear Elliptic Boundary Value Problems*
Advisor: Adolfo Rumbos

Norman Richert 1981
*Diophantine Approximation of Complex Numbers*
Advisor: Jerome Spanier

Beltran Rodriguez-Brito 2010
*A Metagenomic Examination of a Solar Saltern in Southern California*
(JDP with SDSU) Advisor: Forest Rohwer

Otilio Rojas Ulacio 2009
*Modeling of Rupture Propagation under Different Friction Laws using High-Order Mimetic Operations*
(JDP with SDSU) Advisors: Steven Day and José Castillo

Julia Rossi 2016
*Non-Conservative Variational Approximation for Nonlinear Schrodinger Equations and its Applications*
(JDP with CSULB) Advisor: Hamid Rahai

Mary Royston 1995
*Three-Sided Assignment Games*
Advisor: William F. Lucas

Yadong Ruan 2020
*Modeling and Analysis of Falling Liquid Films*
Advisors: Ali Nadim and Marina Chugunova

Eduardo Sanchez 2015
*Mimetic Finite Differences and Parallel Computing to Stimulate Carbon Dioxide Subsurface Mass Transport*
(JDP with SDSU) Advisor: José Castillo

Thomas R. Savage 1997
*On Some Problems in the Theory of Von Neumann Regular Rings*
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(JDP with CSULB) Advisor: Hamid Hefazi

Henry J. Schultz 1974
*Banach and Frechet Algebras of Power Series*
Advisor: Sandy Grabiner

Micah Schuster 2015
*Systematic Investigation of Operators in Nuclear Systems*
(JDP with SDSU) Advisor: Calvin Johnson

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(JDP with CSULB) Advisor: Perla Ayala
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John Sepikas 2011
Enhanced Lattice Methods for High Dimensional Quadrature Applications
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Interaction of the Quantum Vacuum with an Accelerated Object and its Contribution to Inertia Reaction Force
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The Geographic Mosaic Theory in Relation to Coevolutionary Interactions between Two Species
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Advisor: William F. Lucas

John C. Tripp 1975
Multiplications on Banach Spaces
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Gregg Turner 1991
Spectral Conditions for Oscillations and Stabilization of Systems of Differential Equations with Piecewise Constant Arguments
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James Turtle 2016
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Jorge Xicotencatl Velasco-Hernandez 1991
Models of Chagas’ Disease: Stability, Thresholds and Asymptotic Behavior
Advisor: Stavros Busenberg

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A Mathematical Description of Diagrammatic Models for Structural Changes in Dendritic Spines
Advisors: Ellis Cumberbatch and Steve Baer (ASU)

Minaya Villasana de Villagas 2001
A Delay Differential Equation Model for Tumor Growth
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Huy Khanh Vu 2011
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Hsi-Ching Wang 2011
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(JDP with CSULB) Advisor: Subhash Rajpoot

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Wei Wang 2015
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(JDP with SDSU) Advisor: Tao Xie

Bruce Wilcox 2018
A Time Series Data Mining and Unobserved Component Modeling Approach to Credit Risk Correlation Modeling
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12
<table>
<thead>
<tr>
<th>Name</th>
<th>Year</th>
<th>Title</th>
<th>Advisor/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark Wilson</td>
<td>2015</td>
<td>Structure and Rheological Properties of Self-Associating Polymer Networks</td>
<td>(JDP with SDSU) Advisor: Arlette Baljon</td>
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<td>Tina Woolf</td>
<td>2017</td>
<td>Practical Compressed Sensing</td>
<td>Advisor: Deanna Needell</td>
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<tr>
<td>Binghui Wu</td>
<td>1992</td>
<td>Integrated Semigroups of Bounded Linear Operators and their Applications to Inverse Problems</td>
<td>Advisor: Stavros Busenberg</td>
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<tr>
<td>Kaiqi Xiong</td>
<td>1997</td>
<td>Analysis of a Class of Nonlinear Dynamical Systems and Applications to Neural Networks</td>
<td>Advisors: Jerome Spanier and Ellis Cumberbatch</td>
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<tr>
<td>Dong Xu</td>
<td>2008</td>
<td>Femvib, an Ab Initio Multi-Dimensional Solver for Probing Vibrational Dynamics in Polyatomic Molecules and Free Radicals</td>
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<td>Qian Xu</td>
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<td>Shujing Xu</td>
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<td>Effects of History and Lift Force on Particle Trajectories in Oscillating Rotating Fluids</td>
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<td>Rong Zablocki</td>
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<td>Thomas M. Zacharia</td>
<td>1984</td>
<td>Stochastic and Deterministic Sets</td>
<td>Advisor: Richard A. Vitale</td>
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<td>Peter Zajac</td>
<td>2013</td>
<td>Globally Accessible Finite Element Based Web Solver for the Vibrational Schroedinger Equation and Application to HC3O and ZnCl2+</td>
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<td>Sarah Zarei</td>
<td>2012</td>
<td>Mathematic Modeling of Cystic Fibrosis</td>
<td>(JDP with SDSU) Advisor: Peter Salamon</td>
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<tr>
<td>Frederick P. Zemke</td>
<td>1975</td>
<td>Subrecursive Hierarchies</td>
<td>Advisor: Alden Pixley</td>
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<tr>
<td>Peng Zhao</td>
<td>2015</td>
<td>Novel Random Forest Methods Applied to Medical Studies</td>
<td>(JDP with SDSU) Advisor: Juanjuan Fan</td>
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<td>Ran Zhao</td>
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<td>Essays on Credit Derivatives and Credit Risk Modeling</td>
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<td>Ming Zhou</td>
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<td>A Mathematical Analysis of Vesicle Shapes</td>
<td>(JDP with CSULB) Advisor: Hsien-Yang Yeh</td>
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<td>Bing Zhu</td>
<td>2008</td>
<td>Computational Modeling and Bifurcation Analysis of Bubbling Fluidized Processes</td>
<td>(JDP with SDSU) Advisor: Antonio Palacios</td>
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</tbody>
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Lixia Zhu
2018
The Efficiency, Robustness and Carry-over under the Crossover Designs with Binary Outcomes
(JDP with SDSU) Advisor: Kung-Jong Lui

Lu Zhu
2014
First Passage Times and their Application to Credit Default Swap Pricing with Counterparty Risk
Advisor: Henry Schellhorn

Omair Zubairi
2015
An Investigation of Deformation of the Stellar Structure of Neutrons Stars
(JDP with SDSU) Advisor: Fridolin Weber