PHD GRADUATES (SINCE 2000)

- **Darren Narayan**
  - May 2000
  - *The reversing number of a digraph*
  - advisor, Garth Isaak
  - now at Rochester Institute of Technology, Rochester, New York

- **Lyn Phy**
  - May 2000
  - *Applications of weak*-basic sequences and biorthogonal systems to questions in Banach space theory*
  - advisor, Andrew Snyder
  - now at Kutztown University, Kutztown, Pennsylvania

- **Daniel Rose**
  - May 2000
  - *Asymptotic behavior of combinatorial optimization and proximity graphs on random point sets*
  - advisor, Joe Yukich
  - now at Mercer County Community College, West Windsor Township, New Jersey

- **Michael Fisher**
  - May 2001
  - *Topics in v1-periodic homotopy theory*
  - advisor, Donald Davis
  - now at West Chester University, West Chester, Pennsylvania

- **Lisa Marano**
  - May 2001
  - *On the global and local moduli of continuity of Brownian motion with applications to mathematical finance*
  - advisor, Vladimir Dobric
  - now at West Chester University, West Chester, Pennsylvania

- **Tom Shimkus**
  - May 2002
  - *Immersions of 2-torsion lens spaces*
  - advisor, Don Davis
  - now at University of Scranton, Scranton, Pennsylvania

- **Mike Fraboni**
  - May 2002
  - *Some q-convexity properties of coverings of convex manifolds*
  - advisor, Terry Napier
  - now at Moravian College, Bethlehem, Pennsylvania

- **Leyla Batakci**
  - June 2002
  - *Cohomology of the Steenrod algebra mod nilpotents*
  - advisor, Don Davis
  - now at Elizabethtown College, Elizabethtown, Pennsylvania

- **John Frommeyer**
  - January 2003
  - *Arithmetic on free abelian groups*
  - advisor, Clifford Queen
  - now a Programmer/Analyst at the University of Pennsylvania, Philadelphia, Pennsylvania

- **Miranda Teboh-Ewungkem**
  - May 2003
  - *Mathematical analysis of oxygen and substrate transport within a multicapillary system in skeletal muscle*
  - advisor, Eric Salathe

- **Tracy Bowers**
  - May 2003
  - *Characterization of minimal submanifolds by total Gaussian curvature*
  - advisor, David Johnson

- **Katarzyna Potocka**
  - May 2004
  - *Number of summands in v1-periodic homotopy groups of SU(n)*
  - advisor, Don Davis
  - now at Ramapo College, NJ

- **Beth Shimkus**
  - May 2004
  - *Limit theory for functionals on random bipartite sets*
  - advisor, Joe Yukich

- **Trisha Moller**
  - May 2004
  - *t-split interval orders*
  - advisor, Garth Isaak
  - now at Moravian College

- **Francisco Ojeda**
  - January 2006
  - *Orthonormal expansions for Gaussian processes*
  - advisor, Vladimir Dobric

- **Brian Heinold**

- ○ May 2006
- ○ *Sum List Coloring and Choosability*
- ○ advisor, Garth Isaak
- ○ now at Mount St. Mary's College, Emmitsburg, Md.

- **Nate Shank**
  - ○ May 2006
  - ○ *Limit theorems for random Euclidean graphs*
  - ○ advisor, Joe Yukich
  - ○ now at Moravian College, Bethlehem, Pennsylvania

- **Murugiah Muraleetharan**
  - ○ May 2006
  - ○ *Evolution of curves by curvature flow*
  - ○ advisor, David Johnson

- **Nasrine Bendjilali**
  - ○ May 2007
  - ○ *New approaches to multiple comparisons*
  - ○ advisor, Wei-Min Huang
  - ○ now at Rowan University

- **Clement Akongnwi Mformbele**
  - ○ May 2007
  - ○ *Time Dependent and Steady State Interaction Among Capillaries in Skeletal Muscle*
  - ○ advisor, Eric Salathe

- **Xiaoxue Li**
  - ○ May 2007
  - ○ *Some properties of the v1-periodic spectrum associated to exceptional Lie groups*
  - ○ advisor, Don Davis
  - ○ now at Emory and Henry College

- **Jennifer Gorman**
  - ○ July 2007
  - ○ *Nested Traveling Salesperson Problems*
  - ○ advisor, Garth Isaak

- **Ellen Panofsky**
  - ○ May 2008
  - ○ *Graph Labeling Problems with Distance Conditions*
  - ○ advisor, Garth Isaak
  - ○ now at Temple University

- **Patrick Gorman**
  - ○ August 2008

- ○ *Stability of a terrestrial Planet in a planetary System with a Hot Jupiter*
  - ○ advisor, George McCluskey
  - ○ now at University of Nevada, Las Vegas

- **Joel Mohler**
  - ○ May 2009
  - ○ *Residues of Weyl Group Multiple Dirichlet Series*
  - ○ advisors, Gautam Chinta and Bruce Dodson
  - ○ Software developer

- **Huiyu Qian**
  - ○ May 2009
  - ○ *On Data-driven Chi square statistics*
  - ○ advisors, Bennett Eisenberg and Wei-Min Huang
  - ○ now at San Diego State University

- **Nicholas Zoller**
  - ○ August 2009
  - ○ *Galois Groups of CM Fields of Degrees 12, 16, 18, 20 and 24*
  - ○ advisor, Bruce Dodson
  - ○ now at Southern Nazarene University

- **Charles Buehrle**
  - ○ May 2010
  - ○ *The Hecke Algebra of the Symmetric Group and the Quantum Immanant Space*
  - ○ advisor, Mark Skandera
  - ○ now at Notre Dame of Maryland University

- **Christopher Godbout**
  - ○ May 2010
  - ○ *On the Behavior of Chern-Simons Classes under Ricci Flow*
  - ○ advisor, David Johnson

- **Jonelle Hook**
  - ○ May 2010
  - ○ *The Classification of critical graphs and Star-critical Ramsey Numbers*
  - ○ advisor, Garth Isaak
  - ○ now at Mount St. Mary's College, Emmitsburg, Maryland

- **Justin Lambright**
  - ○ May 2011
  - ○ *A generalization of Kazhdan and Lustzig's R-polynomials*
  - ○ advisor, Mark Skandera
  - ○ now at Anderson University

- **Melissa Stoner**
  - ○ May 2011
  - ○ *Existence and stability of Standing and Traveling Wave Solutions Arising from*

Synaptically Coupled Neuronal Networks
  - advisor, Linghai Zhang
  - now at Salisbury State University

- **Karen McCready**
  - May 2012
  - *Exponent bounds for SU(n)*
  - advisor, Don Davis
  - now at King's College, Wilkes-Barre, Pennsylvania

- **Meng Zhu**
  - May 2012
  - *On Stability and Rigidity of Gradient Ricci Solitons*
  - advisor, Huai-Dong Cao
  - now at East China Normal University

- **Marina Skyers**
  - May 2012
  - *A Tale of Two Sequences: A Story of Convergence, Weak and Almost Sure*
  - advisor, Lee Stanley
  - now at Penn State Brandywine

- **Qiang Chen**
  - May 2013
  - *Some Uniqueness and Rigidity Results on Gradient Ricci Solitons*
  - advisor, Huai-Dong Cao

- **Brittany Ohlinger (Shelton)**
  - May 2013
  - *Combinatorial Interpretations of Induced Sign*
  - advisor, Mark Skandera
  - now at Albright College

- **Breeanne Swart (Baker)**
  - May 2013
  - *The k-Fixed-Endpoint Path Partition Problem*
  - advisor, Garth Isaak
  - now at The Citadel

- **Patricia Garmirian**
  - Sep 2013
  - *The Central Limit Theorem and the Estimation of the Concentration of Measure for Fractional Brownian Motion*
  - advisor, Vladimir Dobric

- **Kathleen Ryan**
  - Sep 2013
  - *Degree Sequences of Edge-Colored Graphs in Specified Families and Related*

Problems
  - advisor, Garth Isaak
  - now at DeSales University, Center Valley, Pennsylvania

- **Christopher Haines**
  - Jan 2014
  - *The Relative Advantage of Knowing an Initiation Time or a Mean Time When Estimating a Parameter from an Exponential Distribution Using Type-II Left Censored Data*
  - advisor, Bennett Eisenberg
  - now teaching at Binghamton University

- **Alexander Halperin**
  - May 2014
  - *Subdivisions with Distance Constraints in Large Graphs*
  - advisor, Vincent Coll and Colton Magnant
  - now at Salisbury State University

- **Yingying Zhang**
  - May 2014
  - *Geometric Quantization of Classical Metrics on the Moduli Space of Canonical Metrics*
  - advisor, Huai-Dong Cao and Xioafeng Sun
  - now at Tsinghua University

- **Rivka Win**
  - Jan 2015
  - *Statistical Comparisons of Time Series*
  - advisor, Wei-Min Huang
  - now at Pennsylvania College of Technology, Williamsport, Pennsylvania

- **James T. Long**
  - May 2015
  - *Computational Topics in Infinite-Time Turing Computation*
  - advisor, Lee Stanley
  - now working as a computer programmer

- **Matt Prudente**
  - May 2015
  - *Two-Player Variation of Graph Pebbling Computational Topics in Infinite-Time Turing Computation*
  - advisor, Garth Isaak
  - now at Alvernia University, Reading, Pennsylvania

- **Samuel Clearman**
  - May 2016
  - *Combinatorial Aspects of Hecke Algebra Characters*
  - advisor, Mark Skandera

- ○ now working as a software engineer

- **Xin Cui**
  - ○ May 2016
  - ○ *On Curvature, Volume Growth and Uniqueness of Steady Ricci Solitons*
  - ○ advisor, Huai-Dong Cao

- **Sarah Dumnich**
  - ○ May 2016
  - ○ *A Measure Theoretic Approach to the Construction of Scaling Functions for Wavelets*
  - ○ advisor, Vladimir Dobric and Robert Neel
  - ○ now at St. Vincent College, Latrobe, Pennsylvania

- **Cuneyt Ferahlar**
  - ○ May 2016
  - ○ *A Weitzenbock Formula for Compact Complex Manifolds and Application to the Hopf Conjecture in real dimension 6*
  - ○ advisor, David Johnson

- **Mackenzie Wildman**
  - ○ May 2016
  - ○ *The Dobric-Ojeda Process with Applications to Option Pricing and the Stochastic Heat Equation*
  - ○ advisor, Daniel Conus and Vladimir Dobric

- **Alex Borselli**
  - ○ August 2016
  - ○ *Galois Groups of CM Fields in Degrees 24, 28, and 30*
  - ○ advisor, Bruce Dodson
  - ○ now at St. Vincent College, Latrobe, Pennsylvania

- **Aydin Gerek**
  - ○ Jan 2017
  - ○ *Hendry's Conjecture on Chordal Graph Subclasses*
  - ○ advisor, Garth Isaak
  - ○ now research engineer at Huawei

- **William Franczak**
  - ○ May 2018
  - ○ *K-Triviality and Computable Measures*
  - ○ advisor, Lee Stanley
  - ○ now at The College of New Jersey

- **Pamela Gordon**
  - ○ May 2018
  - ○ *Structural considerations for interval orders with length constraints*
  - ○ advisor, Garth Isaak

- **Caitlin Owens**
  - May 2018
  - *Forbidden Subgraphs for Hamiltonian Problems on 2-Trees*
  - advisor, Garth Isaak
  - now data scientist, USDA

- **Steve Scheirer**
  - May 2018
  - *Topological complexity of graph configuration spaces*
  - advisor, Don Davis
  - now at Susquehanna University

- **Robert Short**
  - May 2018
  - *Relative topological complexity of a pair*
  - advisor, Don Davis
  - now at NASA

- **Aria Dougherty**
  - May 2019
  - *Regular Functionals on Seaweed Lie Algebras*
  - advisor, Vincent Coll
  - now at Ranger College

- **Alan Dyson**
  - May 2019
  - *Existence, Uniqueness, and Stability of Traveling Waves in Neural Field Models*
  - advisor, Linghai Zhang

- **Alex Cameron**
  - August 2019
  - *Combinatorial Index Formulas for Lie Algebras of Seaweed Type and the Unbroken Spectrum of Frobenius Seaweeds*
  - advisor, Vincent Coll

- **Nicholas Mayers**
  - May 2020
  - advisor, Vincent Coll
  - now at North Carolina State University

- **Han Chen**
  - May 2021
  - *A Clustering-Based Analysis Procedure for Dynamic Models with Blocked Data and Its Applications*
  - advisor, Wei-Min Huang
  - now a machine learning scientist at Wayfair

- **Thomas Dickson**
  - May 2021
  - *Intermittency and the Stochastic Logistic Differential Equation*
  - advisor, Daniel Conus

- **Jiangtao Yu**
  - May 2021
  - *Type II self-similar solutions to the Ricci flow and the mean curvature flow*
  - advisor, Huai-Dong Cao
  - now at University of Science and Technology of China

- **Alan Hylton**
  - January 2022
  - *On the Cohomology of Seaweed Algebras*
  - advisor, Vincent Coll
  - now a Computer Engineer at NASA

- **Tianbo Liu**
  - May 2022
  - *Curvature Estimates for Complete Gradient Expanding Ricci Solitons*
  - advisor, Huai-Dong Cao

- **Nick Russoniello**
  - May 2022
  - *On Contact Lie Algebras: Seaweeds and Lie Poset Algebras*
  - advisor, Vincent Coll

- **Robert Mccloskey**
  - August 2022
  - *On Change-of-Basis of Quasisymmetric and Noncommutative Symmetric Functions*
  - advisor, Angela Hicks

- **Ruxiao Qian**
  - August 2022
  - *Intermittency for the Stochastic Heat and Wave Equations With Generalized Fractional Noise*
  - advisor, Daniel Conus

- **James Siene**
  - December 2022
  - *Bach-Like Tensors on Complete Gradient Shrinking Ricci Solitons and Quasi-Einstein Manifolds with Harmonic Weyl Curvature*
  - advisor, Huai-Dong Cao

- **Huaiqian You**
  - December 2022
  - *Nonlocal Models for Complex Physical Responses: Analysis and Applications*

- ○ advisor, Yue Yu

- **Junming Xie**
  - ○ May 2023
  - ○ *Shrinking and Expanding Self-Similar Solutions to the Ricci Flow and the Mean Curvature Flow*
  - ○ advisor, Huai-Dong Cao

- **Peter Conley**
  - ○ August 2023
  - ○ *Sum List Vertex Arboricity and Decycling Number of Cylinder Graphs*
  - ○ advisor, Garth Isaak

- **Mashael Alshammari**
  - ○ May 2024
  - ○ *Properties of the Global Solutions of a Two-Dimensional Incompressible Dissipative Quasi-Geostrophic Equation*
  - ○ advisor, Linghai Zhang

- **Hang Zhao**
  - ○ May 2024
  - ○ *Some Topics in Partial Differential Equations: Exact Limit and Diffusive Limit*
  - ○ advisor, Don Davis

- **Logan Hambric**
  - ○ August 2024
  - ○ *Phase Tropical Homology and Intersection Lattices*
  - ○ advisor, Andrew Harder

- **Samantha Miller-Brown**
  - ○ August 2024
  - ○ *Quasisymmetric Characteristic Compatible S(n)-Modules*
  - ○ advisor, Angela Hicks

- **Jerry Guo**
  - ○ December 2024
  - ○ *High Dimensional Behavior of Time Constant in the First-Passage Percolation Model*
  - ○ advisor, Si Tang

- **Ningxi Wei**
  - ○ December 2024
  - ○ *Optimization via Clustering to Improve Ensemble Performance of Infectious Disease Models*
  - ○ advisor, Wei-Min Huang

- **Xinshuo Wu**
  - ○ December 2024

- ○ *Topics in Mixture Regression Models: Parametric and Non-Parametric Approaches with High-Dimensional Covariates*
  - ○ advisor, Wei-Min Huang

- **Daoyuan Han**
  - ○ December 2024
  - ○ *Calabi Hyperkähler Manifold and Singularity Models of U(3)-Invariant Ricci Flow*
  - ○ advisor, Huai-Dong Cao

- **Jacob Hauser**
  - ○ May 2025
  - ○ *On the Word-Representability of Chordal Near-Triangulations*
  - ○ advisor, Garth Isaak

- **Caleb Scutt**
  - ○ May 2025
  - ○ *Traces and Their Combinatorial Interpretations: A Comparative Study of the Symmetric Group Algebra, Hecke Algebra, and Immanants of Totally Nonnegative Matrices*
  - ○ advisor, Mark Skandera

- **Yiming Fan**
  - ○ August 2025
  - ○ *Uncertainty Quantification for Forward and Inverse Problem in Nonlocal Heterogeneous Material Modeling*
  - ○ advisor, Yue Yu

- **Peipei Wang**
  - ○ August 2025
  - ○ *Estimating the Hurst Index Under the Dobrić–Ojeda Framework for Long-Range Dependence in Stock Prices*
  - ○ advisor, Daniel Conus

- **Tian Qin**
  - ○ Fall 2025
  - ○ *iterative Expectation (iE) - A Generalized Bias Reduction Technique*
  - ○ advisor, Wei-Min Huang