	Doctorate Position	Appendix B PhD Doctorates Awarded in the Department of Mathematics and Statistics **Dissertation Title**	**Advisor Commencement Date**
1	Kenneth L. Pothoven University of South Florida	Characterizations of Some Functors of Categories of Banach Spaces	Kung-Wei Yang December 1969
2	John A. Mitchem San Jose State University	On External Partitions of Graphs	Gary Chartrand April 1970
3	Wayne W. Bishop California State University, Los Angeles	A Theory of Multiplicity for Multiplicative Filtrations	John W. Petro April 1971
4	Mauice L. Eggan Trinity University, San Antonio, Texas	Discrete Approximations to continuous Optimal Control Problems	Arthur W. J. Stoddart April 1972
5	Pascal D. Mubinga Returned to Zaire	Convergence Bounds in Optimization	Arthur W. J. Stoddart April 1972
6	Alan A. Bishop	Completion of Lattices with Semicomplementation	Erik A. Schreiner August 1972
7	Timothy B. Carroll Eastern Michigan University	Severance Classes and Multi- pliclative Arithmetic Functions	Anthony A. Gioia April 1973
8	Donald W. VanderJagt Grand Valley State University	Local Connectivity in Graphs	Gary Chartrand April 1973
9	Krishnamachari S. Nadathur Bishop Herber College, India (retired)	Linear Operators Between Nonarchimedian Banach Spaces	Kung-Wei Yang August 1973
10	James E. Williamson University of Dubuque	On Hamiltonian-Connected Graphs	Gary Chartrand August 1973

11	Kenneth G. Hummell Eureka Company	The Automorphism Group of the Wreath Product of Finite Groups	Joseph T. Buckley August 1974
12	Linda M. Lesniak Drew University	On the Theory of Hamiltonian Graphs	Gary Chartrand August 1974
13	John A. Roberts University of Louisville	Indegrees, Outdegrees, and the Hamiltonian Theme	Gary Chartrand August 1975
14	Saul Stahl University of Kansas	Self-Dual Embeddings of Graphs	Arthur T. White August 1975
15	Kenneth P. Johnson Grand Valley State University	Symmetric Maps of S3 onto a Homotype 3-sphere	Alden H. Wright August 1975
16	Brian L. Garman University of Tampa	Cayley Graph Imbeddings and the Associated Block Designs	Arthur T. White August 1976
17	James M. Benedict Augusta State University, Georgia	On Ramsey Numbers Defined by Factorizations of Regular Complete Multi-partite Graphs	Gary Chartrand August 1976
18	H. Joseph Straight SUNY, College at Fredonia	Partitions of the Vertex Set or Edge Set of a Graph	Don L. Lick August 1977
19	Jerome J. Przybylski Elmira College, New York	On a System of Nonlinear Ordinary Differential Equations with an Irregular Type Singularity: A Degenarte Case	Philip Hsieh August 1978
20	Nancy J. Boynton SUNY, College at Fredonia	Markovian Multiserver Queuing Systems with Servers in Series	A. Bruce Clarke April 1979
21	Ronald J. Gould Emory University	Traceability in Graphs	Gary Chartrand August 1979
22	David Burns Ferris State University	Uniform Factorization in Graphs	Shashi F. Kapoor December 1979

23	John Frederick Fink Univ. of Michigan – Dearborn	Random Factors and Isofactors in Graphs and Digraphs	Gary Chartrand August 1982
24	Brian T. Mitchell Environmental Research Institute of Michigan	Parameter Optimization Using a Hierarchial System of Learning Automata	Dion Kountanis August 1982
25	Sergio Ruiz Deceased	On Isomorphic Decompositions of a Graph	Gary Chartrand December 1983
26	John G. Gimble Univ. of Alaska Fairbanks	The Chromatic ad Cochromatic Number of a Graph	Linda M. Lesniak April 1984
27	John M. Rahn Western Michigan University	On the Genus of a Block Design	Arthur T. White August 1984
28	Hung Bin Zou Intermagnetics General Corp.	On Common Subgraphs	Gary Chartrand December 1985
29	Kohn A. Kapenga Western Michigan University	Jacobi Moments in Applied Mathematics and Computer Science	Philip Hsieh August 1986
30	Ortrud R. Ollermann University of Winnipeg	Generalized Connectivity in Graphs	Gary Chartrand August 1986
31	Farhad Shahrokhi University of North Texas	Design and Analysis of Efficient Routing Algorithms	Donald W. Matula December 1986
32	Thomas J. Vidmar Pharmacia and Upjohn	Design and Analysis of Drug Combination Experiments	Joseph W. McKean April 1986
33	James Buddy Davis Radford University	Robust Rank Analysis for Multivariate Linear Models	Joseph W. McKean April 1987
34	Zhuguo Mo Returned to China	Graph and Directed Graph Augmentation Problems	Kenneth L. Williams June 1988

35	Garry L. Johns Saginaw Valley State Univ.	Generalized Distance in Graphs	Gary Chartrand August 1988
36	Paresh J. Malde	Chromatic Partitions	Allen J. Schwenk December 1988
37	Charlene E. Beckmann Grand Valley State University	The Effect of Computer Graphics Use on Student Understanding of Calculus Concepts	Dwayne E. Channell April 1989
38	Karen S. Holbert Grand Valley State University	Specified Subgraphs and Subgraph-defined Parameters in Graphs	Gary Chartrand April 1989
39	Lee D. Witt Davenport College	Coefficients of Multiple Determination Based on Rank Estimates	Joseph W. McKean April 1989
40	Grzegorz Kubicki University of Louisville	Greatest Commons Subgraphs	Gary Chartrand August 1989
41	Eva Kubicki University of Louisville	The Chromatic Sum and Efficient Tree Algorithms	Allen J. Schwenk August 1989
42	Sudhakar H. Rao Schering-Plough Research Institute, Kenilworth, NJ	Measures of Partial Association Based on Rank Estimates	Gerald L. Sievers August 1989
43	Robert G. Rieper	*The Enumeration of Graph Imbeddings*	Arthur T. White August 1990
44	Sonlin Tian Central Missouri State Univ.	*On Distance in Graphs and Digraphs*	Gary Chartrand August 1990
45	Bruce P. Mull Lake Michigan College	*Enumerating the Orientable 2-Cell Imbeddings of Complete n-Partite Graphs*	Arthur T. White August 1990
46	Thomas B. Sprague Cornerstone University	*Shape Preserving Piecewise Cubic Interpretation*	Dennis D. Pence August 1990

47	Ghidewon Abay Asmeron Virginia Commonwealth Univ.	*Graph Products and Covering Graph Imbeddings*	Arthur T. White December 1990
48	Jamal H. Nouh Birzeit University, West Bank	*Improving Network reliability*	Alfred J. Boals December 1990
49	Héctor Hevia Universidad Católica de Valparaisi, Chile	*A Representation of chemical Reactions by Labeled Graphs*	Gary Chartrand June 1991
50	Elzbieta B. Jarrett Modesto Junior College	*Transformations of Graphs and Digraphs*	Gary Chartrand June 1991
51	David L. Craft Muskingum College	*Surgical Techniques for Constructing Minimal Orientable Imbeddings of Joins and Compositions of Graphs*	Arthur T. White June 1991
52	Hung-Ir Li Eli Lilly Company	*On Rank Procedures for the Logistic Models*	Joseph W. McKean December 1991
53	Jiuziang Liu Eastern Michigan University	*Maximal and Maximum Independent Sets in Graphs*	Yousef Alavi June 1992
54	Hang Chen Central Missouri State Univ.	*Common Moment Sets of Complememtar Graphs*	Allen J. Schwenk June 1992
55	Himli Yahya	*A Progressive Disease Model for Doubly-censored Bivariate Survival Data that Accommodate Covariate Information*	Daniel Mihalko August 1992
56	Kimberly Tucker Perry Pharmacia and Upjohn	*A Critical Examination of the Use of Preliminary Tests in Two-sample Tests of Location*	Michael R. Stoline August 1992
57	Ignatious E. Vakalis Capitol University	*Multivariate Quadrature on MIMD Machines with Shared or Distributed Memory*	Elise DeDoncker August 1992

58	Sherry Dixon National Center for Lead-Safe Housing	*Rank Based Procedures in the Heteroscedastic Linear Model*	Joseph W. McKean December 1993
59	Steven Winters Univ. of Wisconsin-Oshkosh	*Distances Associated with Subgraphs and Subdigraphs*	Gary Chartrand June 1993
60	Brian A. Keller Iowa State University	*Symbol Sense and Its Development in Two Computer Algebra System Environments*	Christian R. Hirsch August 1993
61	Ian Campbell Walters, Jr. D'Youville College	*Isospectral Graphs and the Expander Coefficient*	Allen J. Schwenk June 1994
62	Stavros Costa Pouloukas Cyprus College, Cyprus	*Comparisons of Several Medians in a Lognormal K-sample Context Where Some Date may be Left-censored*	Michael Stoline August 1994
63	Reza Rashidi MCI, Tysons Corner, VA	*The Theory and Applications of Stratified*	Naveed Sherwani December 1994
64	Fan Cong Ford Motor Company	*Semi-Strongly Regular Graphs and Generalized Cages*	Allen J. Schwenk April 1995
65	Feipeng Xie Blue Cross & Blue Shield of Massachusetts	*Asymptotic Diagonalizations of a Liner Ordinary Differential System*	Philip Hsieh April 1995
66	Esther Joy Tesar Educational Testing Services	*Probability Polynomials for Cubic Graphs in the Framework of Random Topological Graph Theory*	Arthur T. White May 1995
67	Quan Yue State Farm Insurance Bloomington, IL	*Efficient Dominating Sets in Oriented Trees*	Allen J. Schwenk June 1995
68	Kelly Lynne Schultz Academic Talented Youth Program, Kalamazoo, MI	*Step Domination in Graphs*	Gary Chartrand June 1995

69	Heather Gavlas Grand Valley State University	*A Graph Theoretic Study of the Similarity of Discrete Structures*	Gary Chartrand June 1996
70	Michelle Schultz University of Nevada at Las Vegas	*Random Cayley Maps*	Arthur T. White June 1996
71	Mei Huang Wang Pharmacia and Upjohn	*Statistics Graphics: Applications to the R and GR Methods in Linear Algebra*	Joseph W. McKean December 1996
72	Allen Emerson Wells College, Aurora, NY	*Gender Discourse in Small Learning Groups of College- level Developmental Mathematics Students*	Christine Browning December 1996
73	Robert Vandell Indiana University-Purdue University, Fort Wayne	*Integrity of Digraphs*	Lowell W. Beineke December 1996
74	Jeffrey Terpstra North Dakota State University	*A Robust Estimate for an Autoregressive Time Series*	Joseph W. McKean April 1997
75	Daniel Cheung State Farm Insurance Agency Kalamazoo, MI	*Estimating IBNR Reserves with Robust Statistics*	Joshua Naranjo April 1997
76	Lisa Hansen Western New England College	*Domination in Digraphs*	Gary Chartrand June 1997
77	James Kett Singapore American School	*A Portrait of Assessment in Reformed Mathematics Classrooms*	Christian R. Hirsch December 1997
78	Richard Low San Jose State University	*Units in Integral Group Rings for Direct Products*	Joseph T. Buckley June 1998

79	Myeong Joon Ann	*Perturbed Hamiltonian System of two parameters with Several Turning Points*	Philip Hsieh June 1998
80	Melanie King Wahlberg The College of New Jersey	*The Effects of Writing Assignments on Second-semester Calculus Students: Understanding Sense*	Christine Browning June 1998
81	Ramon Figueroa-Centeno Pittsburg State University, Pittsburg, KS	*Surface Models of Finite Geometries*	Arthur T. White June 1998
82	Pam Crawford Jacksonville University, FL	*Fostering Reflective Thinking in First Semester Calculus Classes*	Christian R. Hirsch June 1998
83	Dawn Jones Keuka College, Keuka Falls, NY	*A Generalization of Cayley Graphs for Finite Fields*	Arthur T. White August 1998
84	Rebecca Walker Western Michigan University	*Students' Conceptions of Mathematics and the Transition from Standards-based Reform Curriculum to College Mathematics*	Christian Hirsch December 1999
85	David Coffey Western Michigan University	*An Investigation Into Relationships Between alternative Assessment and Pre-Service Elementary Teachers' Beliefs About Mathematics*	Cristine A. Browning June 2000
86	Linda Eroh University of Wisconsin, Oshkosh	*Rainbow Ramsey Numbers*	Allen Schwenk June 2000
87	David Zeitler	*Empirical Spectral Analysis of Random Number Generators*	Joseph McKean June 2001
88	Boyd Jay Hanson	*A Comparison of Methods for Detection of Qualitative Interaction in Multicenter Trials*	Michael R. Stoline March 2001

89	Mary Lynne Breyfogle Bucknell University	*Changing Mathematical Discourse: A Case of a Secondary School Mathematics Teacher*	Laura Van Zoest July 2001
90	David J. Erwin Trinity College	*Cost Domination in Graphs*	Gary Chartrand April 2001
91	Peter Atwood Cornerstone University	*Learning to Construct Proofs in a First Course on Mathematical Proofs*	Christian R. Hirsch July 2001
92	Jonathon K. Hodge Grand Valley State University	*Separable Preference Orders*	Allen J. Schwenk 2002
93	Varaporn Saenpholphat Srinahkarinwirot University	*Resolvability in Graphs*	Ping Zhang April 2002
94	Paula T. Smith	*Local Symmetries of Symmetrical Cayley Maps*	John Martino April 2002
95	Marcia L. Weller Weinhold Purdue University-Calumet	*How Teachers Construct an Understanding of "Appropriate Use" of Graphing Calculators in the Context of Collegial Inquiry*	Christian R. Hirsch July 2003
96	Kirsty Eisenhart Western Michigan University	*Multiobjective Optimal Control Problems with Endpoint and State Constraints*	Qiji (Jim) Zhu March 2003
97	Jihwa Noh University of Northern Iowa	*An Investigation of Secondary Teachers' Knowledge of Rate of Change in the Context of Teaching a Standards-Based Curriculum*	Kate Kline and Steven Ziebarth July 2004
98	Kathryn G. Shafer Bethel College	*Two High School Teachers' Initial Use of Geometer's Sketchpad: Issues of Implementation*	Tabitha Mingus November 2004
99	Paritawana Pacheenburawana Thummasat University	*The Global Optimality Conditions in Mathematical Programming and Optimal Control*	Yuri S. Ledyaev December 2004

100	Ralucca Gera Naval Postgraduate School	*Stratification and Domination in Graphs and Digraphs*	Ping Zhang November 2004
101	Archara Chaiyakarn Thummasat University	*Structure Preserving Algorihtms for Computing the Sympletic Singular Value Decomposition*	Niloufer Mackey November 2004
102	Joseph Fox Salem State College	*Nilpotent Orbits on Infinitesimal Symmetric Spaces*	Terrell L. Hodge March 2006
103	Sheri Stockero Michigan Technological Institute	*The Effect of Using Video Cases of Mathematics on Preservice Teachers' Development of a Reflective Stance Towards Teaching*	Laura Van Zoest June 2006
104	Henry Escuadro Janiata College	*Detectable Colorings of Graphs*	Ping Zhang January 2006
105	Futaba Okamoto University of Wisconsin – La Crosse	Measures of Traversability in Graphs	Ping Zhang, April, 2007
106	Ovidiu Furdui University of Toledo	*The Fock Space and Related Bergman Type Integral Operators*	John Srdjan Petrovic June 2007
107	Nesrin Cengiz University of Michigan – Dearborn	*What allows Teachers to Extend Student Thinking During whole Group Discussions?*	Theresa J. Grant and Kate Kline August 2007
108	Dana Cox Miami of Ohio University	*Understanding Similarity: Bridging Numeric and Geometric Strategies for Proportional Thinking*	Steven Ziebarth, and Jane-Jane Lo June 2008
109	Sandra Madden University of Massachusetts, Amherst	*High School Mathematics Teachers' Evolving Understanding of Comparing Distributions*	Christian Hirsch, August 2008
110	Anirban Dutta Letse, LLC	*Option Pricing and Stable Trading Strategies in the Presence of Information Assymetry*	Qiji J. Zhu, Chair April 2010

111	Allen Bickle	*The K-Core of a Graph*	Allen Schwenk December 2010
112	Kyle Kolasinski U.S. Department of Defense	*Hamiltonicity and Connectivity in Distance-Colored Graphs*	Ping Zhang June 2011
113	Ryan Jones Grand Rapids Community College	*Modular and Graceful Edge Colorings*	Ping Zhang June 2011
114	Karen Fonkert Charleston Southern University	*Pattern of Interaction and Mathematical Thinking of High School Students in Classroom Environments that Include Use of Java-Based, Curriculum-Embedded Software*	Steven W. Ziebarth April 2012
115	Bryan Phinezy Epic Systems	*Variations on a Graph Coloring Theme*	Ping Zhang June 2012
116	Nicole Fonger University of Wisconsin-Maddison	*Characterizing and Supporting Change in Algebra Students' Representational Fluency in CAS/Paper-and-Pencil Environment*	Jon Davis August 2012
117	Jianwei Lin Returned to China	*The Domination Number of $K_a \Box K_b \Box K_c$*	Allen Schwenk August 2012
118	Benjamin Phillips University of Michigan-Dearborn	*Boolean and Profinite Loops*	Clifton E. Ealy, Jr. December 2012
119	Daniel S. Sievewright Kalamazoo College	*Weighted Shifts of Finite Multiplicity*	John Srdjan Petrovic April 2013
120	Julienne Houck Innovative Software	*A Pattern in the Lusternik-Schnirelmann Category of Rational Spaces*	Jeffrey Strom August 2013

121	David Arnold	*Classifying Spaces of Symmetric Groups and Wreath Products*	John Martino December 2013
122	Napthalin Achubang Atanga Western Michigan University/MOST Project	*Elementary School Teachers' Use of Curricular Resources for Lesson Design and Enactment*	Ok-Kyeong Kim April 2014
123	Eric Andrews University of Alaska-Anchorage	*On Eulerian Irregularity and Decompositions in Graphs*	Ping Zhang June 2014
124	Alper Bulut Kuwait University	*Lie Loops Associated with GL(H), H a Separable Infinite Dimensional Hilbert Space*	Clifton E. Ealy, Jr. June 2014
125	Alden Jack Edson Michigan State University	*A Deeply Digital Instructional Unit on Binomial Distributions and Statistical Inference: A Design Experiment*	Christian Hirsch and Steven Ziebarth June 2014
126	Joshua Goss University of New Haven	*A Method for Assessing and Describing the Informal Inferential Reasoning of Middle School Students*	Christine Browning June 2014
127	Robert Kipka Kent State University	*Mathematical Methods of Analysis for Control and Dynamic Optimization Problems on Manifolds*	Yuri S. Ledyaev June 2014
128	Dustin O. Smith Murray State University	*Eliciting Elementary School Students' Informal Inferential Reasoning through Storytelling*	Kate Kline August 2014
129	Chira Lumduanhom Srinakharinwirot University	*Modular Monochromatic Colorings Spectra and Frames in Graphs*	Ping Zhang December 2014
130	Vasilije Perovic University of Rhode Island	*Spectrally Equivalent Matrix Polynomials: Non-Standard Bases and Preservation of Structure*	D. Steven Mackey May 2015

131	James P. Schwass SalesPage Technologies	*Phantom Maps, Decomposability, and Spaces Meeting Particular Finiteness Conditions*	Jeffrey Strom May 2015
132	Daniel P. Johnston University of Montana	*Edge Colorings of Graphs and Their Applications*	Ping Zhang June 2015
133	Christina Zumbrun Trine University	*Secondary Mathematics Teachers' Attitudes and Beliefs Toward Statistics: Developing an Initial Profile*	Christine Browning & Steven Ziebarth June 2015
134	Timothy L. Clark	*Resolving Classes and Resolvable Spaces in Rational Homotopy Theory*	Jeffrey Strom June 2016
135	Elliot LaForge Kalamazoo Valley Community College	*Chromatic Connectivity of Graphs*	Ping Zhang June 2016
136	James Kratky Vivint Smart Home, Signtronix	*Pedagogical Moves as Characteristics of One Instructor's Instrumental Orchestrations with Tinkerplots and the TI-73: A Case Study*	Jon Davis December 2016
137	Zhenming Bi VOBA Solutions Northeastern University	*Highly Hamiltonian Graphs and Digraphs*	Ping Zhang June 2017
138	Stephen Devereaux Cornerstone University	*Color-Connected Graphs and Information-Transfer Paths*	Ping Zhang December 2017
139	Khawlah Hamad Alhulwah Imam Mohammad University	*Structures of Derived Graphs*	Ping Zhang December 2017
140	Laars Helenius U.S. Army Engineer Research and Development Center (ERDC)	*Edge-Induced Weightings of Uniform Hypergraphs and Related Problems*	Andrzej Dudek December 2017

141	Mehdi Vazifedan TA, Western Michigan University	*No-Arbitrage Principle in Conic Finance*	Qiji Jim Zhu April 2018
142	Ian Hart	*Induced Graph Colorings*	Ping Zhang June 2018
143	Mary Achieng Ochieng	*The Bellringer Sequence: Investigating What and How Preservice Mathematics Teachers Learn Through Pedagogies of Enactment*	Laura Van Zoest June 2018
144	Alexis Byers Youngstown State University	*Graceful Colorings and Connection in Graphs*	Ping Zhang June 2018
145	Sean Joseph English Ryerson University	*Probabilistic and Extremal Problems in Combinatorics*	Andrzej Dudek August 2018
146	Mohra Abdullah Alqahtani King Khalid University	*Generalized Line Graphs*	Ping Zhang December 2018
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148			
149			
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DEPARTMENT OF STATISTICS

	Doctorate Position	Dissertation Title	Advisor Commencement Date
1	Asheber Abebe	*Nonlinear Regression Based on Ranks*	Joseph McKean April 2002
2	Kimberly Crimin	*Visualization Methods: A comparative Study of New, Traditional and Robust Procedures*	Joseph McKean July 2002
3	Diana R. Cucos	*On Rank-Based Considerations for Generalized Liner Models and Generalized Estimating Equations Models*	Joseph W. McKean October 2002
4	Abou El-Makarim Abd El-Alim Aboueissa	*New Statistical Methods for the Estimation Of the Mean And Standard Deviation From Normally Distributed Censored Samples*	Michael R. Stoline November 2002
5	Ali A. Al-Shomrani	*A Comparison of Different Schemes For Selecting and Estimating Score Functions Based On Residuals*	Joseph W. McKean May 2003
6	Jason C. Parcon	*Spearman Rank Regression*	Joshua D. Naranjo May 2003
7	John E. Daniels	*Determination of Spatial Strata for Environmental Regulatory Purposes*	Michael Stoline July 2003
8	Feridun Tasdan	*A Robust Two-sample Procedure to Estimate a Shift Parameter*	Gerald L. Sievers November 2003
9	Ahmed N. Albatineh	*On Similarity Measures for Cluster Analysis*	Daniel Mihalko May 2004
10	John Kloke	*Rank-Based Methods for Repeated Measures Data Under Exchangeable Errors*	Joseph McKean May 2005

11	Rebecca C. Scherzer	*Testing Procedures for Group Sequential Clinical Trials with Multiple Survival Endpoints*	Daniel Mihalko August 2005
12	Marwan Daoud	*Extensions of Two-Part Tests to Compare K Independent Populations*	Magdalena Niewiadomska Bugaj June 2007
13	Ruvie Lou Maria C. Martinez	*Diagnostics for Choosing Between Log-Rand and Wilxocon Tests*	Joshua D. Naranjo September 2007
14	Mathew Anthony Cantos Rosales	*The Robustness of Confidence Intervals for the Mean of Delta Distribution*	Magdalena Niewiadomska-Bugaj March 2009
15	Oluwagbohunmi Adetunji Awosoga	*Meta Analyses of Multiple Baseline Time Series Design Intervention Models for Dependent and Independent Series*	Joseph W. McKean April 2009
16	Eric Nantz	*Testing Equality of Competing Risks of Patient Discontinuation Across Multiple Disease States*	Michael Stoline April 2009
17	Srinand Ponnathapura Nandakumar	*Statistical Procedures for Bioequivalence Analysis*	Joseph W. McKean April 2009