Masters Research Problems Supervised by Dr. Cynthia J. Huffman

- 70. Aisha Ford, Wonders of Greek Mathematics, 2024
- 69. Prince Lathiya, Gröbner Bases and Elementary Matrices, 2024
- 68. Paige Stainbrook, Wallpaper Groups Portrayed in the Alhambra and Quilts, 2023
- 67. Ty Covey, Mathematics and Video Game Design: From Mathematicians to the Players, 2022
- 66. Eric Holmes, Introducing High School Students to Gröbner Bases through Sudoku Puzzles, 2021
- 65. Michael DeGuerre, Using Technology to Teach Vectors in Secondary Education, 2020
- 64. Abdullah Alanazi, Influence of Arabic Mathematics on Medieval Europe, 2020
- 63. Jordan Bailey, Implementing Huffman's Local Case Algorithm for Suslin's Sustainability Theorem, 2020
- 62. Brenda Thenikl, The History of Complex Numbers, 2019
- 61. Maha Aljofei, Jordan Canonical Form, 2019
- 60. Reine Loflin, The Life of Dr. Helen Kriegsman, 2018
- 59. Katherine Brumley, Evolution of the Quadratic Formula, 2018
- 58. Angela Slater, Solving Problems from Algebra Qualifying Exams for Doctorate Programs, 2018
- 57. Yazeed Alhassan, Applications on Sylow's Theorem, 2018
- 56. Ali Hakami, Applications on Group Actions, 2017
- 55. Reid Alotaibi, The Relationship between Indian and Arabic Mathematics, 2017
- 54. Erica Bischoff, *The Architecture of La Sagrada Familia: Modeling Nature Through Ruled and Quadric Surfaces*, 2017
- 53. Ashley Keller, Mathematics Behind the Google Algorithm and its Applications, 2017
- 52. Jordan Jameson Epler, Connections between Computer Graphics and Linear Algebra, 2017
- 51. Will Zimmerman, Computers and Mathematics, 2016
- 50. Ashlee Hashman, An Investigation of Bernstein Polynomials and Bézier Curves, 2016
- 49. Ian Dungan, Applications of Linear Algebra and Number Theory in Electronic Communications and Graphical Rendering, 2016

- 48. Sam Hardy, A History of Quadratic, Cubic, and Quartic Equations, 2016
- 47. Rachael Sachs, Crystallographic Groups of the Baby Taj Mahal, 2016
- 46. Dan Eckstein, From Compass to Wallpaper: How to get High School Students to build Wallpaper Groups, 2016
- 45. Dalal Almutairi, Leontief Models of Economy and Leslie Model of Population Growth, 2015
- 44. Esther Muthoni Thuo, Gröbner Bases Applied to Integer Programming, 2015
- 43. Kristin Gilpin, History of Mathematics in the High School Classroom, 2014
- 42. Savanna O'Toole, Solving Number Puzzles with Gröbner Bases, 2014
- 41. Tim Walker, Educational Benefits of Video Games, 2014
- 40. Kevin Spencer, How the History of Calculus Influences Student Learning, 2014
- 39. Ashley Reavis, Investigations of Elementary Matrices, 2013
- 38. Jessica Booth, M.C. Escher and Work in Hyperbolic Geometry, 2013
- 37. Bader Alshammari, Sylow's Theorems and Fundamental Theorem of Finitely Generated Abelian Groups, 2013
- 36. Ahlam Alzharani, Robotics and Gröbner Bases, 2013
- 35. Ahmad Alalyani, Galois Theory, 2013
- 34. Bethany Burns, Implementing the History of Mesoamerican Mathematics in the Classroom, 2013
- 33. Brittiny Earls, Sixty Famous Women in Mathematics, 2013
- 32. Vanessa Peach, History of Algebra: A Timeline Approach, 2013
- 31. Holden Kraus, Iris Patterns and Algebra: Are there recurring patterns showcased in the human eye that are isomorphic to Dihedral Groups?, 2012
- 30. Timothy Todd Endicott, Pros and Cons of Project-Based Learning, 2012
- 29. Lamin Dumbuya, Cyclic Codes, 2011
- 28. Patrick Schoenhofer, Trisecting an Angle, 2011
- 27. Hanan Almashi, Finite Fields, 2011
- 26. Benjamin Michael Buttler, The Dioid of nxn Set Theoretic Matrices, 2011
- 25. Christine Wilson, Reed Solomon Codes, 2011
- 24. Jason Knight, Advancing an Algorithm: Can the Park-Woodburn Algorithm be More Efficient, 2010
- 23. Erin Kellogg, Using Gröbner Bases to Solve Integer Programming Problems, 2010
- 22. Luke Henke, *The Conversion: Transitioning the local subcase algorithm of the Park-Woodburn Algorithm into a full-fledged program*, 2010

- 21. Rehab Al-Sultan, Economics and Linear Algebra: Leontief's Model as Theory and Methodology of Economic Analysis, 2010
- 20. Collette Jacobs, My Tornadoes: Matrix Webquest, 2009
- 19. Kelli Langan Blackford, Group Theory, 2008
- 18. Rebecca Lomshek, Acanthus (Artist William Morris and Wallpaper Groups), 2007
- 17. Leah Marie Woods, Amalie Emmy Noether and Decomposition of Ideals, 2007
- 16. Angela Steele, Finite Fields and Reed-Solomon Codes, 2007
- 15. Kimberly Lee Miller, An Investigation of the Use of Pascal's Triangle in Collegiate Mathematics Instruction, 2006
- 14. Dean Muse, Girolamo Cardano and the Cubic Equation, 2006
- 13. Melissa McNaught, Project Pascal: Applications of Pascal's Triangle for the Classroom, 2005
- 12. Laura Soukup, Pascal's Triangle in the Primary and Intermediate Classroom, 2005
- 11. Brian Hancock, A Computational Program for the Quillen-Suslin Theorem, 2003
- 10. Carrie Denton, Abstract Algebra: A Further Study of Algebra Through Ph.D. Qualifying Exams, 2002
- 9. Scott Marshall, Suslin's Stability Theorem: An Algorithm for Factoring Matrices with Multivariate Polynomial Entries, 2002
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- 5. Shannan Wyant, Coloring Pascal's Triangle: Construction and Applications, 2000
- 4. Jennifer Laswell, Fascinating Discoveries in the Factorization of Polynomial Matrices, 2000
- 3. Michelle Baier, *Algebra*, Fall 1996 Spring 1997
- 2. Mitch Richling, A Big Problem (Implementing Computational Algebra Algorithms), Fall 1995
- 1. Yi-Feng Pang, Computational Algebra II, Summer 1995