

University Honors Program Research/Creative Projects

University of Alabama in Huntsville

College of Business Administration (formerly Administrative Science)

Department of Accounting and Information Systems

- Laura J. Moss: "Consumer Attitudes toward Globalization in Banking: A Qualitative Study." Advisor: Dr. Yeqing Bao. 2009-10.
- Jana Lindsay Black: "Dynetic's Contracts System Requirements Project." Advisor: Dr. Stephen Floyd. 2001.
- Shveta Khanna: "The Impact of Information Technology on the Accounting Profession." Advisor: Dr. Merle Maddocks. 1998.

Department of Economics and Finance

- Christy Lynn Davis: "Use of Electronic Data Interchange Technology in the Tennessee Valley," Advisor: Dr. Dorla Evans. 2006-07.
- Kristofer Gibbs: "The Role of Anticipated Wealth in Risk Preferences." Advisor: Dr. Dorla Evans. 2003.
- Rodolfo Antonio Bernal: "How Does an Acceleration in the Change of the Fed Funds Rate Compare with an Acceleration in the GDP?" Advisor: Dr. Niles Schoening. 2001.

Department of Management

- Amanda Rose Long: "Significant Ethical Breaches in Modern U.S. Government Contracting and Their Impact on the Current Acquisition Environment." Advisor: Mr. Tom Kallam. 2009-10.

College of Engineering

Department of Civil Engineering

- Roy E. Berryman: "A Comparison of Simulated Traffic Delay to Actual Traffic Delay." Advisor: Dr. Michael Anderson. 2007-08.
- Sarah Louise Yeldell: "Alternative Post-Treatment Processes in the NASA Luna-Mars Habitat." Advisor: Dr. Kathleen Leonard. 2004.
- Amy Louisa Cunningham: "Analysis of and Correctional Procedure for the Operation of the Huntsville Botanical Garden Reciprocating Constructed Wetland." Advisor: Dr. Sampson Gholston. 1999.

- Lori Delaine Goolesby: "Hydrologic Model of Flint River Basin." Advisor: Dr. Kathleen Leonard. 1995.
- Richard Wayne Humphrey: "Engineered vs. Traditional: A Comparison of Wood Beams." Advisor: Dr. Crull. 1994.
- Christy Womack Vines: "Constructed Wetlands as an Innovative, Cost-Effective Solution for Wastewater Treatment in Small Communities." Advisor: Dr. Kathleen Leonard. 1993.

Department of Chemical Engineering

- Lisa Nicole Jones Crawford: "Ethanol Production from Municipal Solid Wastes." Advisor: Dr. Krishnan Chittur. 1995.

Department of Computer Engineering

- Ryan L. Tonini. "Design and Implementation of an Algorithm for Accurate Multi-Environment Position Tracking." Advisor: Dr. Emil Jovanov. 2007-08.
- Michael Cody Mitchell. "Design and Assembly of Electronic Test Boards" Advisor: Dr. Jennifer English. 2006-07.
- Charles Thomas Yarbrough, III: "A Scaleable Multiprocessor." Advisor: Dr. Earl Wells. 1999.
- Timothy Allen Lewis: "Mail Server Installation and Integration." 1997.
- Monish Sharma: "Software Design Control of an Autonomous Vehicle." Advisor: Dr. William Cohen. 1996.
- Lysle Edward Shields, III: "Creating Dedicated Processors Using a VHDL to C Translator." Advisor: Dr. Rhonda Gaede. 1995.

Department of Electrical Engineering

- Michael Cody Mitchell: "Design and Assembly of Digital Electronic Test Boards." Advisor: Dr. Jennifer English. 2006-07.
- Jared Lee Bell: "Rapid Prototyping Using Reprogrammable Logic." Advisor: Dr. Rhonda Gaede. 1998.
- Tarique Kazi: "Improving Performance on Incremental Compilation of Java Bytecodes." Advisor: Dr. William Cohen. 1998.
- Kristopher Lee Young: "Design of a Low-Cost, One-Way, Wireless Digital Communication System." Advisor: Dr. Reza Adhami. 1997.
- Tiffany Michelle Brooks: "A VHDL Design of a Reconfigurable Cache Memory System." Advisor: Dr. Rhonda Gaede. 1995.

Department of Industrial and Systems Engineering

- Yongke Thio: "As-Is Evaluation & Process Design of the 17/18 Foot Refrigerator at General Electric in Decatur, Alabama." Advisor: Dr. Bernard Schroer. 1997.
- Brian Joseph Finzel: "CAD System Selection for Boat Design." Advisor: Dr. Bernard Schroer. 1993.

Department of Mechanical and Aerospace Engineering

- Joshua A. Hill: "Microcontroller Based Rocket Flight Recorder." Advisor: Dr. Marlow Moser. 2009-10.
- Scott David Thomas: "Stress and Thermal Analysis of the LoTEC Carrier." Advisor: Dr. Francis Wessling. 2000.
- Michael Paul (P.J.) Benfield: "ISWE: A Case Study of Technology Transfer." Advisor: Dr. Brian Landrum. 1998.
- Imran Mukhtar: "Hybrid Rocket Powered Upper Stage Design Report." Advisor: Dr. Robert Frederick. 1997.
- Bryan Michael Rasmussen: "Testing of Solid Rocket Propellants with an Ultrasonic Transducer." Advisor: Dr. Robert Frederick. 1997.
- Jason Ford Duckworth: "1998 Reduced Gravity Student Flight Opportunity: Thin Film Extrusion in Microgravity." Advisor: Dr. Feikema. 1997.
- Timothy Doyle Messer: "Optimization of a Methane Transmission and Power Generation System." Advisor: Dr. Shutzenhofer. 1997.
- Michael W. Selby and Patrick Lee Newton: "Space Trajectory Simulation for the Internet." Advisor: Dr. Robert Frederick. 1996.
- Eve Joy Blair: "Robotic Arm Design for Compressor Handling." Advisor: Dr. Don Wallace. 1996.
- Derek Shane Lindsay: "Reduced Small Engine Emissions with Perforated Plates." Advisor: Dr. Gerald Karr. 1995.
- Keith Patrick Bain: "Superplastic Forming System Design." Advisor: Dr. Don Wallace. 1993.

College of Liberal Arts

Department of Art and Art History

- Amberley N Gutscher: "Redefining 'Green'." Advisor: Mr. Keith Jones. 2009-10.
- Carrie Elena Alderfer: "New Beginnings: Art, Computers, and the Internet." Advisor: Mr. Keith Jones. 1997.

Department of Communication Arts

- Ashley Perry: "The Internet: A Cure for Political and Social Fragmentation" Advisor: Dr. Christopher Paul. 2006-07.
- Cindy Shakay Hughey: "When the Personal is Not Political in a Personal is Political Social Movement: Analysis of a Muted Group's Muting of Members." Advisor: Dr. Sherry Smith. 2001.
- Michael Napier: "The Language and Format of Sports News: An Analysis of ESPN's SportsCenter." Advisor: Dr. Clarke Rountree. 1997.

Department of Education

- Nick Wilbourn, "Toward Deconstructionist Pedagogy in the Hegemonic Meritocracy," Advisor: Dr. Philip Kovacs. 2009.
- Emily H. Park: "The Music-Literacy Connection." Advisor: Dr. Mary Piersma. 2007-08.
- Kristen Renee Byrd: "Technology for Teachers." Advisor: Dr. Christy Carroll. 1998.
- Tammy Goode Embry: "Putting Theory to Practice: Application of Constructivist Learning Theories in Social Studies Education." Advisor: Dr. Mary Piersma. 1997.

Department of English

- Emily Hampton, "Rosalind: Play Both Sides of Love and Gender in *As You Like It*," Advisor: Dr. Jeff Nelson. 2008-2009.
- Jennifer Barefoot: "A Hierarchical View of Case Assignment." Advisor: Ms. Andrea Word-Albritton. 2006-07.
- Kate Howard: "'Resting in Unvisited Tombs': *Middlemarch* and Eliot's Ideal of Feminine Heroism." Advisor: Dr. Julie Early. 2005.
- Bradley T. Bain: "The Aeneid and The Tempest: Reflections on Authority." Advisor: Dr. John Mebane. 2003.
- Kenneth Matthew Potter: "Ishmael's Definitions of Self in Melville's *Moby Dick*." Advisor: Dr. Richard Moore. 1999.
- Thomas Joseph (Jody) Lawton: "Resolving the 'hateful siege/ of contraries': The Regeneration of Ideal Desire in Milton's *Paradise Lost*." Advisor: Dr. Nancy Dillard. 1998.
- Jennifer Ann McCay: "Figure, Ground, and Gender in Hawthorne's *The Scarlet Letter: A Romance*." Advisor: Dr. Richard Moore. 1996.

Department of Foreign Languages and Literatures

- Mary Crouch: "Democracy, Neoliberalism, and Social Progress: The Question of Exceptionalism in Costa Rica, 19th -21st Centuries." Advisor: Mr. Karl D. Keller. 2009-10.
- Christina Wegman: "Writing in Rhythm: The Works of Richard Wagner, Franz Schubert, and Robert Schumann as an Introduction to German Literature" Advisor: Dr. Peter Meister. 2006-07.
- Daniel Taylor: "Sex in the Spotlight: Applying Butlerian Gender Theory to the Transgender Woman in Popular Culture" Advisor: Dr. Rolf Goebel. 2006-07.
- Rebecca Lynne Chambers: "Fantastic Literature in Argentina in the 20th Century," Advisor: Dr. Linda Maier. 2006.
- Letisha Jenkins: "Garcma Lorca vs. Esquivel: A Comparative Study of Women in Hispanic Society as They Are presented in *The House of Bernarda Alba* and *Like Water for Chocolate*." Advisor: Dr. Linda Maier. 2005.
- Michele Faris: "Culturally Influenced Marketing Practices Between the United States and Germany with Methods for Integration." Advisor: Dr. Sharron Abernethy. 2005.
- Catherine Margaret Hughes Pycko: "Comparative Analysis of the Causes of Change in Russian Myths from Ancient Times to the 19th Century." Advisor: Dr. Irena Buksa. 2004.
- Jessaka Bailey: "Baudelaire's Criminality and Its Consequences." Advisor: Dr. James Winchell. 1996.
- Alex Tonus: "Individual, Group, and Paradox: Essentials of the Social Bond." Advisor: Dr. James Winchell. 1995.
- Kathy Ratzler Evetts: "The Historical Spirit in Isabel Allende's *La casa de los espiritus*." Advisor: Dr. Linda Maier. 1994.
- Christopher Patrick Ball: "The Difficult Road to Germany's Reunification: Prospects for the Forgotten Outsider." 1994.

Department of History

- Sarah K Fisher. "Tense Theology in a Holy Hierarchy: Liberation Theology versus the Vatican." Advisor: Dr. Andrew Dunar. 2009-10.
- Elisabeth R Spalding: "Perceptions of Valor: Analyzing the Danish Legacy of Heroism During the Second World War." Advisor: Dr. Molly Johnson. 2009-10.
- Elisa Scipioni: "Popular Participation in the Comitia Centuriata of the Late Republic." Advisor: Dr. Richard Gerberding. 2002.

- Julie Rebecca Lollar: "Simply Phonetics: Issues of Accent and Dialect in Nineteenth Century England and Twentieth Century United States." Advisor: Dr. John Severn. 1999.
- David Wayne Lescarini: "London Poor Relief During the Second Industrial Revolution: 1867-1907." Advisor: Dr. John Severn. 1997.
- Eric L. McGee: "The Road to Hartford: The Ideological Shift and Internal Self-Destruction of the Federalist Party." Advisor: Dr. John Severn. 1997.
- Ann E. Milner: "Princeps or Tyrannus: The Literature of Kingship in the First Century A.D." Advisor: Dr. Carolyn White. 1995.
- Elizabeth Pollard Cottrell: "Sacerdotium, Imperium et Studium:" Politics and the Curriculum at the University of Paris in the Thirteenth Century." Advisor: Dr. Carolyn White. 1995.
- Susan E. Dils: "Understanding Theodora: The Role of the Empress in Imperial Religious Policy." Advisor: Dr. Carolyn White. 1993.

Department of Music

- Erin E. Maguire: "Early Childhood Music Programs: Are Teachers Using Methods Effectively?" Advisor: Dr. Carolyn Sanders. 2007-08.
- Aaron J. Tauchen: "Melodia: An Online Web-based Program for Teaching Melody and Rhythmic Dictation." Advisor: Dr. Don Bowyer. 2004.
- Michael Jason Richardson: "Symphony No. 3 'Ragnarok' Final Movement Orchestration for Wind Ensemble." Advisor: Dr. Carolyn Sanders. 2002.
- Jennifer Joy Allen: "The Effects of Synesthesia on Musical Composition." Advisor: Dr. Carolyn Sanders. 2000.
- Danielle L. DeBraccio: "An Association of Music Technology: An Analysis of an Original Musical Composition Created with Musical Instrument Digital Interface." Advisor: Dr. Les Hutson. 1999.

Department of Philosophy

- Archie L Fields: "Realism and Anti-Realism in Martin Heidegger's Philosophy of Science." Advisor: Dr. William Wilkerson. 2009-10.
- Stewart Reeves Jordan: "Heidegger the Magic Empiricist." Advisor: Dr. William Wilkerson. 2009-10.
- Natalia Baeza: "Foundationalism and the Search for Certainty in Mathematics." Advisors: Dr. Andrew Cling and Dr. Claudio Morales. 2004.
- Shiloh Y. Whitney: "The Epistemic Availability of Transcendental Self-Experience: Husserl and the Paradox of the Pure Ego." Advisor: Dr. William Wilkerson. 2004.

- William Doug Bolden: "Philosophical Study of Responsibility." Advisor: Dr. Deborah Heikes , 2004.
- Michael Patrick Provancha: "The Role of Paradigms in the Social Sciences." Advisor: Dr. Andrew Cling. 2002.
- Ron Keith Rowe, II: "Difference in Sameness: Indeterminacy in Reflective Identity." Advisor: Dr. Brian Martine. 1999.
- Ingrid Goree: "Us Against Them: The Emotionally Open Audience and the Aesthetic Experience." Advisor: Dr. Melinda Campbell. 1996.
- Stephen Barnes: "Individuality, Identity, and Relation: Ontological and Moral Dilemmas." Advisor: Dr. Brian Martine. 1995.
- Gerry Curtis Bridgeman: "Foundationalism without the Regress Argument." Advisor: Dr. Andrew Cling. 1995.
- Joseph Sandor Kallo: "Art as Other: Relation in Esthetic Experience." Advisor: Dr. Brian Martine. 1995.

Department of Political Science

- Justin David Roller: "Interest Groups and the 2008 Elections." Advisor: Dr. Andree Reeves. 2009-10.
- Charlotte Martinique Ellett. "Global Energy Security: The Role of the United States in Promoting Renewable Energy." Advisor: Dr. Kathy Hawk. 2009-10.
- Greg Wayne Forsythe: "Containing Iran: Sancations and the Iranian Nuclear Program." Advisor: Dr. Kathy Hawk. 2009-10.
- Emily Caldwell: "The Impact of Latin-American Immigrants on the US" Advisor: Dr. Kathleen Hawk. 2007.
- Derek Chris: "Achieving Stability in Iraq: A Crisis of Legitimacy" Advisor: Dr. Kathleen Hawk. 2007.
- Brandon LaRue: "Dissent and Democracy: A New Imperative for the Global Community," Advisor: Dr. John Pottenger. 2006.
- Amanda Colvin: "Women and the Law: Gender Discrimination in the American Legal System." Advisor: Dr. Roy Meek. 2005.
- Christa Lee Clarke: "Judicial Review: Democratic Institution or Undemocratic Policy Tool, An Historical Perspective." Advisor: Dr. Roy Meek. 1998.
- Sean Jefferson Crawford: "Hungarians in Transylvania: A Struggle for Equality." Advisor: Dr. John MacDougall. 1996.
- Naomi Ann Burke: "The Failure to Contain Communism: State Department Reaction to the 1958 Iraqi Revolution." Advisor: Dr. Allan Spitz. 1996.

Department of Psychology

- Matthew Eaton Cornwell: "The Effect of Post Identification Feedback and Delay on the Witnessing Experience." Advisor: Dr. Jeff Neuschatz. 2004.
- Lesley Elizabeth Johnson: "Relationships Between Gender, Personal and Collective Self-Esteem, and Feminist Identity." Advisor: Dr. Sandra Carpenter. 1999.
- Cheryl Leatherwood: "Moral Reasoning: A Study of Gender, Dilemma Content, and Moral Orientation with Implications for Criminal Justice Systems." Advisor: Dr. Sue Kirkpatrick. 1993.

College of Nursing

- Brittany R. Long: "What Behavioral Effect Does Recess Have on Elementary-age Students Diagnosed with ADD/ADHA?" Advisor: Dr. Lynx Carlton McClellan. 2009-10.
- Pam D. Terry: "The Importance of Oral Suction Device Hygiene in the Prevention of Ventilator Associated Pneumonia." Advisor: Dr. Pamela V. O'Neal. 2009-10.
- Alex M. Witcher: "Assessing Clinical Practice to Prevent Ventilator Associated Pneumonia (VAP)." Advisor: Dr. Pamela V. O'Neal. 2009-10.
- Leah K. Harwell: "Spirituality as a Coping Resource for Family Caregivers Dealing with Cancer." Advisor: Dr. Linda Riley. 2007-08.
- Amy Horton Weeks: "Pregnancy, Bedrest, and the Family." Advisor: Dr. Janet Brookman. 1997.

College of Science

Department of Biological Sciences

- Andrew Blake Adrian: "Several Studies on Dactylogyrus and Their Hosts," Advisor: Dr. Bruce W. Stallsmith. 2009-10.
- Erica J. Pruet: "Efficacy of Transgenic Expression by Biolistic Transformation versus Microinjection in *C. elegans*." Advisor: Dr. Lyn Boyd. 2009-10.
- Katharina L van Santen: "Secondary Addiction: A Catch 22 Hypothesis." Advisor: Dr. Roy Magnuson. 2009-10.
- Emily L. Jones: "Identification of Genes Involved in Signaling during Ectomycorrhizal Symbiosis." Advisor: Dr. Gopi Podila. 2007-08.
- Clint T. Patterson: "Colonization of a Cloud Forest Landslide by *Guettarda poasana* and *Clibadium leiocarpum*." Advisor: Dr. Robert Lawton. 2007-08 .
- Darren Scott Ferree: "Mapping the Toxic and Regulatory Domains of Doc of the P1 Plasmid Addiction Operon." Advisor: Dr. Roy Magnuson. 2001.

- April Elizabeth Hennebeck: "Comparative Composition of Undisturbed Forest and the 1974 Tornado Track Forest Recovery on Monte Sano." Advisor: Dr. Robert Lawton. 2001.
- Jessica Lynn Williams: "Effects of Sleep Deprivation on College Students." Advisor: Ms. Theresa Brooks. 2001.
- Ross Martin Vander-Noot: "Conjugal transfer of a transcriptional fusion plasmid containing the toluene 2-monooxygenase gene promoter from an E. Coli host to the parental strain, Burkholderia cepacia G4." Advisor: Dr. Joseph Leahy. 2000.
- Priya Narayana Bhat: "Amplification of the Phenol Hydroxylase Promoter Region of Pseudomonas putida CF600 as a Precursor for Transcriptional Fusion." Advisor: Dr. Joseph Leahy. 1999.
- Kanika Singh: "Cytotoxic Activity on HepG2 Cells." Advisor: Dr. Debra Moriarity. 1999.
- Alexis Robert Penot: "The Characterization of an Amiid Species from the Fort Union Rock Formation of the Early Paleocene." Advisor: Dr. William Garstka. 1998.
- William D. Hornsby: "Behavioral Response of the Crayfish Procambarus clarkii to the Crustacean Molting Hormone 20-Hydroxyecdysone." Advisor: Dr. Richard Modlin. 1997.
- Gregory Charles Batson: "Chemical Characterization of Condensate from Steam Classified Municipal Solid Waste." Advisor: Dr. Michael Eley. 1995.
- Adrienne Froelich: "Respiration Rates of Mysidopsis bahia Under Varying Temperature and Salinity." Advisor: Dr. Richard Modlin. 1995.
- Mark Tafazolf: "Antitumor Cell Compounds from Neotropical Plants." Advisor: Dr. Debra Moriarity. 1993.

Department of Chemistry

- Nathan A. Meredith: "Molecular Weight Determination of Polymers using Mass Spectrometry, GPC, and NMR Techniques." Advisor: Drs. Bernhard Vogler and Carmen Scholz. 2009-10.
- Sarah Ridout Bolden: "A Computational Study of Factors Governing Proton Transport in Anhydrous Proton-Conducting Polymeric Membranes for Fuel Cells." Advisors: Dr. Steven Paddison. 2006-07.
- Ashley Francis Penton: "Natural Products as Potential Inhibitors of Cruzain," Advisors: Dr. William N. Setzer and Dr. Bernhard Vogler. 2006.
- Kerry Jeannette Townsend: "Method Development Using a Multi-angled Laser Light Scattering System for Characterization of Poly (ethylene)glycol Derivatives." Advisors: Drs. Congo and Scholz. 2002.

- Ryan Merrell: "Computer Modeling of Molecular Vibrational Frequencies and its Application to the Modeling of Silane Molecules." Advisors: Drs. Weimer, Meehan, and Mishra. 1997.
- Karen Suzanne Lewis: "Improvements Made in Solution Composition and Sample Preparation for Chromium-Cobalt Electrodeposition." Advisors: Dr. Clyde Riley and Dr. Dwain Coble. 1996.

Department of Computer Science

- Eric Moore, "Chaos by Design: Using Pseudo-Randomness to Make Artificial Intelligence More 'Human,'" Advisor: Dr. Harry Delugach. 2009.
- Aaron J. Tauchen: "Melodia: An Online Web-based Program for Teaching Melody and Rhythmic Dictation." Advisor: Dr. Don Bowyer. 2004.
- Beth Michelle Davis: "Avoiding Deadlock in a Multi-Processor Environment" Advisor: Dr. Glenn Cox. 2003.
- Stephen Daniel Daugherty: "CK Metrics for DAML Documents." Advisor: Dr. Anthony Orme. 2003.
- Jennifer Lynn Hood: "A Night Out Itinerary Creator." Advisor: Dr. Delbart Hart. 2001.
- Jeremy Kentrez Tillman: "Babylon 5 Collectable Card Game Network Interface." Advisor: Mr. Brad Vinz. 2001.
- Stacy Kelley Lukins: "Software Engineering and Hypermedia Application Design: The Classic Life Cycle vs. Relationship Management Methodology." Advisor: Dr. Anthony Orme. 1996.
- Terence Michaels: "On-Line Registration." Advisor: Dr. Timothy Newman. 1996.
- Jason Saint: "Roll the Bones, A Study of Random Events Using Interactive Simulation." Advisor: Dr. Kyle Siegrist. 1996.
- Lee Seitz: "Designing a UNIX Novice Interface." Advisor: Dr. Sajjan Shiva. 1995.
- Gary Warren: "Structured and Object-Oriented Software Methodologies: A Comparative Analysis Based Upon a Case Study." Advisor: Dr. Davis. 1993.
- Hemi Peng: "The Object Teacher: Adapting Object-Oriented Design to Instructional Design." Advisor: Dr. Harry Delugach. 1993.

Department of Mathematical Sciences

- Candice Renee Clark: "HDRNN-Based Machine Learning: Proving the Concept." Advisor: Dr. Boris Kunin. 2009-10.
- Blane Hollingsworth: "Dynamical Systems: Predictability and Chaos." Advisor: Dr. Claudio Morales. 1998.
- Maria Kujawski: "Bandwidth and Additive Bandwidth of Graphs" Advisor: Dr. Peter Slater. 1993.

- Debra Meiers: "Minimum Average Distance (MAD) Partitioning for Grid Graphs." Advisor: Dr. Peter Slater. 1994.

Department of Physics

- Matthew W. Cox: "Gravitational Wave Content of Spatial Hypersurfaces." Advisor: Dr. Lior Burko. 2009-10.
- Eric James Zirnstein: "Computing Hydrogen Energetic Neutral Atom (ENA) Losses for NASA's IBEX Using 3D Models." Advisor: Dr. Jacob Heerikhuisen. 2009-10.
- John Ira Bailey, III: "A New Method for Finding Exoplanets." Advisor: Dr. Russel White. 2007-08.
- Lisa Kodgis: "Investigating a Triality Hypothesis for Quantum Gravity" Advisor: Dr. Robert Preece. 2006-07.
- Simon Porter: "Young Stars in the Gum Nebula" Advisor: Dr. Russel White. 2006-07.
- Thomas Kenneth Spain: "Expression and Structural Characterization of RAB8 Protein," Advisor: Dr. Pamela Twigg. 2006.
- Daniel Britton: "Comparison of Measured Convection Velocities with Calculations Based on an Electric Potential Model." Advisor: Dr. Horwitz. 2002.
- Buckley Allen Hopper: "Searching for a Quantum Algorithm to Solve the Traveling Salesman Problem." Advisors: Drs. Pethel and Bowden. 2001.
- Nathan Good: "Linear Control Techniques for the Stabilization of High Order Periods of Chaotic Systems." Advisors: Dr. Charles Bowden and Shawn Pethel. 1996.
- Aaron Trickey: "Modeling the Effects of a Phase-Locked Higher Harmonic in Synchronous Sonoluminescence." Advisor: Dr. Frederick Seeley. 1996.
- Dorothy Seitz: "Resolving a Conflict between Coherence Theory and Classical Radiometry, Incoherent Planar Sources are Lambertian." Advisor: Dr. Lloyd Hillman. 1994.

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