

Celebration of Student Achievement: Poster Session Schedule 2016



Session A: EDU 212 - 12:00-1:00	Session E: SSB Atrium - 12:00-1:00
Session B: EDU 212 - 1:15-2:15	Session F: SSB Atrium - 1:15-2:15
Session C: EDU 212 - 2:30-3:30	Session G: SSB Atrium - 2:30-3:30
Session D: EDU 212 - 3:45-4:45	Session H: SSB Atrium - 3:45-4:45

Students	Department	Faculty Mentor	Title of Presentation	Session	Location
Arts & Communication					
Alyssa Hess	Art & Art History	Chak; Brooks	Graphic Design Portfolio Review	D	41
Taylor Hughes	Art & Art History	LaJevic	Art Lessons: Experiences with Student Teaching	9:00AM-4:00PM	AIMM LOBBY
Melissa Ramirez	Art & Art History	LaJevic	Art Lessons: Experiences with Student Teaching	9:00AM-4:00PM	AIMM LOBBY
Scott Samuels	Art & Art History	LaJevic	Art Lessons: Experiences with Student Teaching	9:00AM-4:00PM	AIMM LOBBY
Petra Kovacs Kevin O'Brien Madison Ouellete Maria Gottfried Petra Kovacs	Communication Studies	Pollock	Cross National Newspaper Coverage of Transit Migration: A Community Structure Approach	C	1
Cleo Kordomenos Brooke Buonauro Colleen Phelan Abigail Hosonitz Cleo Kordomenos	Communication Studies	Pollock	Nationwide Newspaper Coverage of Transgender Rights: A Community Structure Approach	D	45
Rebecca Mamrosh Cleo Kordomenos Marc Trotochaud Theresa Soya	Communication Studies	Pollock	Cross-National Coverage of Coastal Contamination: A Community Structure Approach	D	46
Kevin O'Brien	Communication Studies	Pollock	Undiagnosed Concussion Prevention Campaign	D	47
Orlando Salas Kate Caratenudo Maria Pacenza	Communication Studies	Ryan	Art and Soul of Trenton	A	8
Business					
Sonya West	Economics	Tang	Global Trade of Processed Food and Fast Food	A	53
Nicholas Dunn	Economics	Tang	The Brexit Referendum: Exchange Rate Changes and Their Effect	A	54
Sarah Hamernick	Finance	Hume	Does CSR Matter in the Health Care Industry?	A	57
Ashley Aviles	Finance	Nordquist	The Best Way to Find Yourself is to Lose Yourself in Service	A	10
Emily LaRosa	Finance	Nordquist	Trailblazing: Four Years on the Environment Team	A	11
Matt Macfarlane	Finance	Nordquist	A Man and his Mission	A	12
Cynthis Timko	Finance	Tang		A	56
Aesha Patel Prarthi Patel	Finance	Wund	Anti Predator Behavior Studies in Different Populations of Three- spine Stickleback	A	29
Aesha Patel Prarthi Patel	Finance	Wund	Anti predator Behavior Studies in Different Populations of Three- Spine Stickleback	A	30
Mayra Aburto	Management	Nordquist	Metamorphosis	A	13
Talia Martinez	Management	Nordquist	From Nothing to El Centro	A	14
Esther Osei	Management	Nordquist	Educating the Future Youth	A	15

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Students	Department	Faculty Mentor	Title of Presentation	Session	Location
Julianna Hessel	Marketing & IDB	Becker	Motivations and Behaviors When Using Mobile Coupon Apps	A	32
Nicole deQuintal	Marketing & IDB	Brechman	Cord Blood Banking Information Seeking and Scanning in the General Population and in a Sample of Expectant Parents	A	33
Nicole deQuintal	Marketing & IDB	Brechman		A	34
Raj Manimaran	Marketing & IDB	Nordquist	Learning to Change the World	A	16
Education					
Nicole Petrillo	Elementary and Early Childhood Education	Ammentorp	Integrating Sustainability into Existing Elementary Curriculum Units	A	36
Amy Pilsbury	Elementary and Early Childhood Education	Hinitz	Teaching tolerance: Providing teachers with anti-bullying resources to create a lasting impact	A	37
Jennifer Liang	Elementary and Early Childhood Education	Madden	Growing Green Thinkers	A	35
Marissa Capobianco	Elementary and Early Childhood Education	Madden	Nature Trail at Ben Franklin Elementary School	A	38
Rebekah Chung Cori Haider Carly Hecht Celina Beattie Rebekah Chung	Elementary and Early Childhood Education	Mawhinney	Preschool Today, Preschool Tomorrow	A	39
Alanna Jenkins Carlie Horton Lauren Bsales Catherine Gambourg Alanna Jenkins	Elementary and Early Childhood Education	Mawhinney	Performance Based Funding	A	40
Andrea Erichsen Sarah Jung Michelle Silvestri Max Falvey Andrea Erichsen	Elementary and Early Childhood Education	Mawhinney	School Violence in the United States	A	41
Danielle Pullia Rachel O'Gorman Rachel O'Gorman Dejon Ricketts Danielle Pullia Angelica Vanderbilt	Elementary and Early Childhood Education	Mawhinney	If You're Reading This, It's Too Late... I Already Dropped Out	A	42
Frankie DiMedio Lindsay Sanford Sydney Hamilton Aimee Sandoval Frankie DiMedio	Elementary and Early Childhood Education	Mawhinney	Teacher Tenure	A	43
Megan Eichmann	Elementary and Early Childhood Education	Nordquist	From West to East: Teaching through Trenton Public Schools	A	17
Leslie Rodriguez	Elementary and Early Childhood Education	Nordquist	An Unexpected Start but a Fulfilling Journey	A	18
Natasha Santiago	Elementary and Early Childhood Education	Nordquist	A New Me	A	19
Emily Whipple	Special Education, Language and Literacy & Deaf Education	Madden	Climate Change and Human Impact	A	45
Alexa Preiss	Special Education, Language and Literacy & Deaf Education	Rotter		A	46

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Students	Department	Faculty Mentor	Title of Presentation	Session	Location
Corey Lynch	Special Education, Language and Literacy & Deaf Education	Strassman	What Teachers of the Deaf Should Know About Academic Language	A	47
James Dale	Educational Administration and Secondary Education	Connolly	<i>The Great Gatsby</i> : Social Class and Character	4:00-5:15PM	Roscoe West
Aniela Huizenga	Educational Administration and Secondary Education	Connolly	Pre Algebra I: Percent Applications	4:00-5:15PM	Roscoe West
Soon Mi Miyazawa	Educational Administration and Secondary Education	Connolly	Equivalent Ratios and Proportions	4:00-5:15PM	Roscoe West
Katie McLaughlin	Educational Administration and Secondary Education	Connolly	Ancient China	4:00-5:15PM	Roscoe West
Jacob Maier	Educational Administration and Secondary Education	Connolly	Great Depression and The Rise of Dictators	4:00-5:15PM	Roscoe West
Michelle Flinton	Educational Administration and Secondary Education	Connolly	Geometry: Area, Perimeter, and Volume	4:00-5:15PM	Roscoe West
Stavroula Kontogiannis	Educational Administration and Secondary Education	Connolly	Advanced Algebra II (Honors): Higher Degree Functions	4:00-5:15PM	Roscoe West
Rachel Lyn Atkins	Educational Administration and Secondary Education	Connolly	Social Conflict in <i>The Great Gatsby</i>	4:00-5:15PM	Roscoe West
Katie Tencza	Educational Administration and Secondary Education	Connolly	<i>The Odyssey</i> Part 1: Literary Devices and the Hero	4:00-5:15PM	Roscoe West
Anthony Gitto	Educational Administration and Secondary Education	Connolly	Las Riquezas Naturales	4:00-5:15PM	Roscoe West
Jennifer Stranz	Educational Administration and Secondary Education	Connolly	Pre-Algebra: Probability	4:00-5:15PM	Roscoe West
Sarah Seitz	Educational Administration and Secondary Education	Connolly	Le guerra en el arte (War in Art)	4:00-5:15PM	Roscoe West
Tara Kemble	Educational Administration and Secondary Education	Connolly	<i>The Great Gatsby</i> & The American Dream	4:00-5:15PM	Roscoe West
Nikki Felice	Educational Administration and Secondary Education	Connolly	Introduction to Differential Equations	4:00-5:15PM	Roscoe West
Evan Patrick	Educational Administration and Secondary Education	Connolly	Reconstruction	4:00-5:15PM	Roscoe West
Briana Arencibia	Educational Administration and Secondary Education	Davis	Parcc Review	4:00-5:15PM	Roscoe West
Maris Campanella	Educational Administration and Secondary Education	Davis	Expressions	4:00-5:15PM	Roscoe West
Kelsey Collins	Educational Administration and Secondary Education	Davis	Drama in the Modern Day	4:00-5:15PM	Roscoe West

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Gianna Cumella	Educational Administration and Secondary Education	Davis	Patrick Henry's Speech at the Virginia Convention	4:00-5:15PM	Roscoe West
Siddhi Desai	Educational Administration and Secondary Education	Davis	Expressions and Equations	4:00-5:15PM	Roscoe West
Shawn Dresner	Educational Administration and Secondary Education	Davis	Newspapers	4:00-5:15PM	Roscoe West
Allison Jones	Educational Administration and Secondary Education	Davis	The Great Depression	4:00-5:15PM	Roscoe West
Ben Keating	Educational Administration and Secondary Education	Davis	Application of Equations and Expressions to Real World Situations	4:00-5:15PM	Roscoe West
Kim Mazzucco	Educational Administration and Secondary Education	Davis	Proportional Relationships/Slope-Intercept Form of the Line	4:00-5:15PM	Roscoe West
Briana Nagy	Educational Administration and Secondary Education	Davis	Medieval West Africa	4:00-5:15PM	Roscoe West
Gina Palmisano	Educational Administration and Secondary Education	Davis	Manifest Destiny/Events leading up to the Civil War	4:00-5:15PM	Roscoe West
Richard Petrucelli	Educational Administration and Secondary Education	Davis	Drama	4:00-5:15PM	Roscoe West
Rhiannon Picioccio	Educational Administration and Secondary Education	Davis	<i>Othello</i>	4:00-5:15PM	Roscoe West
Brian Quindlen	Educational Administration and Secondary Education	Davis	Westward Expansion	4:00-5:15PM	Roscoe West
Briana Tetlow	Educational Administration and Secondary Education	Davis	Edgar Allan Poe and Dark Romanticism	4:00-5:15PM	Roscoe West
Alissa Renales	Educational Administration and Secondary Education	Davis	<i>Romeo and Juliet</i>	4:00-5:15PM	Roscoe West
William Wolf	Educational Administration and Secondary Education	Davis	Discovering Allusions, Characters, and Themes in Greek Mythology	4:00-5:15PM	Roscoe West
Caitlyn Altieri	Educational Administration and Secondary Education	Gordon	Math, Inequalities	4:00-5:15PM	Roscoe West
Avalina Antico	Educational Administration and Secondary Education	Gordon	Language Arts, <i>Romeo & Juliet</i> : Act 3	4:00-5:15PM	Roscoe West
Thomas Baranyi	Educational Administration and Secondary Education	Gordon	World History, Nationalism	4:00-5:15PM	Roscoe West
Kayla Begen	Educational Administration and Secondary Education	Gordon	Math, Expressions	4:00-5:15PM	Roscoe West
Emily Bruinooge	Educational Administration and Secondary Education	Gordon	Algebra, Graphing and Problem Solving with Quadratic Equations	4:00-5:15PM	Roscoe West

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Emmanuel Castillo	Educational Administration and Secondary Education	Gordon	American History, 1960s	4:00-5:15PM	Roscoe West
Sarah Clooney	Educational Administration and Secondary Education	Gordon	Algebra, Graphic Linear Equations	4:00-5:15PM	Roscoe West
Joseph Cori	Educational Administration and Secondary Education	Gordon	Social Studies, Civics, Civil Rights	4:00-5:15PM	Roscoe West
Joseph Daly	Educational Administration and Secondary Education	Gordon	Algebra, Graphic Linear Equations and Functions	4:00-5:15PM	Roscoe West
Joshua Fausti	Educational Administration and Secondary Education	Gordon	Social Studies, Civics, Civil Rights	4:00-5:15PM	Roscoe West
Christopher Lane	Educational Administration and Secondary Education	Gordon	World History, Nationalism	4:00-5:15PM	Roscoe West
Kathryn Marshall	Educational Administration and Secondary Education	Gordon	Math, Solving Algebraic Equations	4:00-5:15PM	Roscoe West
Matthew Modica	Educational Administration and Secondary Education	Gordon	Language Arts, <i>Romeo & Juliet</i> : Act 3	4:00-5:15PM	Roscoe West
Alyssa Ortner	Educational Administration and Secondary Education	Gordon	Pre-Algebra, Geometry: Area, Surface Area, and Volume	4:00-5:15PM	Roscoe West
Steven Powers	Educational Administration and Secondary Education	Gordon	American History, 1960s	4:00-5:15PM	Roscoe West
Amanda Soliman	Educational Administration and Secondary Education	Gordon	Algebra II: Function Transformations	4:00-5:15PM	Roscoe West
Katherine Vetrone	Educational Administration and Secondary Education	Gordon	Pre-Algebra, Geometry: Area, Surface Area, and Volume	4:00-5:15PM	Roscoe West
Engineering					
Steven Brucato Danielle Shapiro Christine DeZerga Catherine Guarino	Biomedical Engineering	BuSha; Adegbege	RCSDDevice (Rotator Cuff Strengthening Device)	C	20
Caroline Wood	Biomedical Engineering	Figuroa	Analytical method to fabricate reproducible SERS substrates	C	2
Christopher MacTaggart James Gilligan Jordan Kayal Emily Atzert	Biomedical Engineering	Hall	Portable Vitals Monitoring Device	C	3
Sindhuja Kuchibhatla Lindsey Cabanas Naina Iyengar	Biomedical Engineering	Hall	A Point-of-Care Device for Measuring a Salivary Biomarker of Periodontal Disease Progression, $\hat{I}\pm$ -Amylase	C	4
Bryan Cromwell, Timothy Eck, Jonathan Popo, and Prithvi Singh	Biomedical Engineering	Lau	ACL Rehabilitation Device	C	21
Bernabe Sanjuanelo Abigail Baldwin-LeClair Khaled Alhaddad Anna Kedzierska	Biomedical Engineering	Wagner; Pearlstein	Smart Cushion: A Device to Reduce the Risk of Pressure Ulcer Formation	C	5

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Peter Okoh Chris Spellman Jeff Lawrence Chris Egan	Biomedical Engineering	Wei; Adegbege	EEG Powered Wheelchair	C	6
Kevin Gurski Jessica Ansley Jessica Ansley Maxx Dufficy Kevin Gurski	Civil Engineering	Krstic; Horst	Monmouth County Bridge MA-14 Geotechnical and Hydrological Design	C	7
Richard Levenson	Electrical and Computer Engineering	Adegbege	Analog Neural Network for Multivariable Algebraic Loops in Constrained Control	C	8
Kyle Villano and Tim Kindervatter	Electrical and Computer Engineering	Adegbege	Design of a Control System for Autonomous Flight of a Quadrotor UAV	C	22
Dhruvit Naik Zachary Nelson Kevin Cao Whitley Forman	Electrical and Computer Engineering	Hernandez; Pearlstein	Design and Verification of an Application Specific Integrated Circuit (ASIC)	C	9
Michael Zumstein	Electrical and Computer Engineering	Katz; Jessen	Iridium Based Communication for UAV	C	10
Yilin Yang Daniel Ponsini	Electrical and Computer Engineering	Kim	Toward Humanoid Robot Self Awareness Algorithms using Petri net Modeling and Simulation Analyses	C	12
Sarah Drescher Philip Baldoni Evan Miller	Electrical and Computer Engineering	Kim; Grega	NAO Autonomously Operated Mechanical Vehicle	C	11
Dylan Johnson Kyle Conklin	Electrical and Computer Engineering	Pearlstein	Armstrong Parking Lot Availability System	C	13
Mitchell Smith Marissa Morello Evan Cignarella Alexander Fayerman Jason Palermo	Mechanical Engineering	Grega	2016 SAE Aero Design Competition: Advanced Class	C	14
Nico Cuzzola Mehdi Benmassaoud Mehdi Benmassaoud Charlie Gordon Joe Martinico	Mechanical Engineering	Wang; Hernandez	Moroccan Monster	C	15
Matt Domitrowski	Technological Studies	Figuroa	Design of a shower water meter	C	16
Stefania Gonzalez	Technological Studies	Figuroa	Design of an automatic candle extinguisher	C	17
Aaron Herl	Technological Studies	Figuroa	Design of an automatic container opener	C	18
James Mekilo	Technological Studies	Figuroa	Design of an LED guitar	C	19
Health & Exercise Science					
Selena Senachai	Nursing	Blicharz	ICU Open Visitation Policies & Quality Outcomes	D	48
Humanities & Social Sciences					
Stephanie Vuono	Criminology	Bates	Destruction of Coral Reefs	A	58
Daniel Flynn	Criminology	Holleran	Analysis of Shooting Hits in New Jersey	A	59
Fiore Corcione	Criminology	Mazeika	Data Availability Among Larger Urban Police Departments	A	60
Matthew Kirk	Criminology	Mazeika	The Impact of Geocoding Method on the Identification of Crime Hot Spots	A	61

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Jonathan Wright	Criminology	Mazeika	Near-Repeat Analysis of Gunshots in Trenton, NJ	A	62
Erin Rabbit Alana Colabella Alana Colabella John Humcke	English	Blake	The Literature of Fame	A	63
Madeline Remetz Madeline Remetz Kaitlyn Crowley Daniel Marino	English	Blake	The Literature of Fame	A	64
Kevin Bizzoco Stephanie Sievers Stephanie Sievers Megan Eichmann	English	Blake	The Literature of Fame	A	65
Tiffany Rolle Kate Yazujian Alyssa Deforest Alejandra Meneses	English	Blake	The Literature of Fame	A	66
Molly Schulhafer Alexandra Yulich Audrey Deren Gina Milazzo	English	Blake	The Literature of Fame	A	67
Shayna Innocenti	English	Nordquist	Breaking Down the Walls that Stereotypes Build	A	20
Alissa Cappelleri	English	Steele; Norquist	Motivated and Meaningful Reading: Linguistic Identity, Cultural Capital, and Educational Expectations	A	27
Nicole Petrillo	History	Shao	American Environmental Crises: The Powerlessness of Minorities at the Hands of the Government	D	50
Steven Rodriguez	History and Philosophy	Nordquist	Bringing TCNJ Back to Trenton	A	21
Mary Fetske	Political Science	Bowen		A	48
Erin Perna	Political Science	Dumas	The Supreme Court & Justice Expertise	A	49
Amanda Rivera	Political Science	Dumas	Do High Win Rates Guarantee Success: a Look into Attorneys, Firms	A	50
Kathleen Begley	Political Science	Dumas	Capital Punishment in the 21st Century: An Examination of Influence	A	51
Jessica Milne	Psychology	Barnack-Tavlaris	Opinions of Reproductive Health Products	E	1
Aleisa Campbell	Psychology	Chung	Internship Experience at Eden Autism Services	E	2
Allijah Bennett, Alexa-Rae Martinez Angela Miceli Tali Zusman Allijah Bennett, Kelsey Fama	Psychology	Chung	Gender, Stress, and Locus of Control	E	3
Alexandra Oskam	Psychology	Chung	An Evaluation of Psychoeducation Treatment Programs	E	4
Brittany Angiolini Genesis Rubio Casey Conte Kelly Bobchin, Cristal Reyes	Psychology	Chung	Understanding Locus of Control Orientation among Nontraditional College Students	E	5
Raekwon Burton Jayson Speran Aditi Mahapatra Emma Hastings Raekwon Burton, Sarah Melamed	Psychology	Chung	College Involvement and Locus of Control	E	6
Marisa Fernandez Amanda Pallitto Rebecca Burke	Psychology	Crawford	An Attempt to Replicate the Double-Edged Swords of Genetics	E	7

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Ashley Taconet Julia Ibara Zachary Brennan	Psychology	Crawford	Double-Edged Sword of Genetics: A Replication	E	8
Bridget Walsh Allison Fournier Joseph Terstenyak	Psychology	Crawford	Genetic Accounts of Criminality Replication	E	9
Serena Wasserman	Psychology	Crawford	Social Group Categories are Imbued with Ideological Meaning, but Some More than Others	E	10
Heather Weinberg Kassidy DiTolla Omair Vehra Natalie Chaux Heather Weinberg	Psychology	Grimm	Freshman Living and Learning Communities	F	1
Jessica Kennick Kalyani Parwatkar Olivia Donini Megan Fearon Jessica Kennick	Psychology	Grimm	The Effect of Race and Gender on First-Year Academic Engagement	F	2
Rawan Mohamed Emmalyn Steiner Susan Acero Madison Oskowiak Rawan Mohamed	Psychology	Grimm	The Effect of Helicopter Parenting and Ethnicity on Academic Engagement in First Year Students	F	3
Amanda Quijada	Psychology	Kirnan	Motivation Filtering: What is the Best Way to Assess Psychometric Properties?	F	4
Mitchell Farrell	Psychology	Martinetti	The effect of environmental enrichment on behavioral economic demand for ethanol and sucrose in Long-Evans rats	F	5
Nicole Sheppard	Psychology	Nordquist	Learning to Keep an Open-Mind	A	22
Briana Sosa-Fondeur	Psychology	Nordquist	Things get solved if you get involved	A	23
Nicole Fasano	Psychology	Ruddy	Occupational Therapy and Rehabilitation Services: An Internship Experience at Capital Health	G	1
Hannah Idler	Psychology	Ruddy	Interning at a substance abuse treatment center	G	2
Genevieve Schmitt	Psychology	Ruddy	Caring about the Caregivers: The Impacts of Emergency Response on Emergency Responders	G	3
Sally Sturm	Psychology	Ruddy	The Psychosocial and Psychological Factors Affecting the Mental and Physical Well-Being of Individuals	G	4
Rachel Turan Rachel Turan	Psychology	Ruddy	Analysis of the Dimensions and Causes of Rape Culture Attitudes	G	5
Jillian Wesley	Psychology	Ruddy	The Behavioral Pharmacology Correlates Between Eating Disorders and Drug Addiction	G	6
Kelsey Wolff	Psychology	Ruddy	Contributing Biological Factors in the Development of Anorexia Nervosa	G	7
Edith Duggan	Psychology	Ruscio	Mental Accounting and its affects on student motivation to attend class and pay attention.	F	6
Jennifer Burke	Psychology	Ruscio	Nudging people to break "bad" habits using positive punishment vs. positive reinforcement	H	1
Edith Duggan	Psychology	Ruscio		H	2

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Andrew Edelblum	Psychology	Ruscio	Eat Smarter?: Investigating the Long-Term Effects of Libertarian Paternalism in College Dining Halls	H	3
Melissa Mendez	Psychology	Ruscio	Increasing College Applications	H	4
Adam Oppenheimer	Psychology	Ruscio	Pacifying Aggression on the Road	H	5
Melissa Pliskin	Psychology	Ruscio	Differentiating Between Categories and Dimensions	H	6
Lauren Purdon	Psychology	Ruscio	Behavioral economics and help-seeking	H	7
Catherine Van Stolk	Psychology	Ruscio	How Do Incentives Affect Fitness Compliance	H	8
Zachary Meiklejohn	Psychology	Ruscio	Expert Reviewers or Massed Feedback, Consumer's Preference	H	9
Ashley Van Riper Sierra Fuller Brynn Holbrook Maxine Lopez Ashley Van Riper Nancy Rae Pietrobon	Sociology and Anthropology	Adler	Exploring Meanings of Rule Breaking Behaviors among Committed Psychiatric Patients at Princeton House	A/B	52
Cindy Cortez	Sociology and Anthropology	Nordquist	Bonner Scholar in Trenton City Hall	A	24
Gabrielle Lauda	Sociology and Anthropology	Nordquist	More than Just a Degree	A	25
Science					
Raagasri Agraharam Harika Vemulapalli	Biology	Bricker	DNA Analysis of endangered <i>Elaphe guttata</i> in New Jersey	C	47
Cecilia Johnson	Biology	Butler	Timing and location of winter molt in a long-distance migratory songbird, the Western Tanager	D	32
Patrick Gallagher	Biology	Clement	An expanded species-level phylogeny for <i>Viburnum</i> (Adoxaceae) and its implications for biogeography	C	46
Theodore Stammer	Biology	Clement	Intraspecific Variation of Seed Shape within <i>Viburnum</i> (Adoxaceae)	D	31
Shai Bejerano	Biology	Dickinson	The effects of ocean acidification on carapace biomineralization in tanner crabs (<i>Chionoecetes bairdi</i>)	B	53
Aparna Yarram	Biology	Dickinson	Investigating the Impact of Ocean Acidification on the Mechanical and Structural Properties of Juvenile King Crabs	B	54
Kyle Siegel	Biology	Dickinson	Effects of salinity on adhesive and shell properties in the barnacle <i>Amphibalanus amphitrite</i>	C	48
Christine Makdisi	Biology	Dickinson	Evaluating the Effects of Ocean Acidification on the Exoskeleton Mechanics and Structure of Southern Tanner Crab Claw (<i>Chionoecetes bairdi</i>)	D	34
Dana Tedesco	Biology	Dickinson	Ocean Acidification Affects Shell Formation But Not Adhesion in the barnacle <i>Amphibalanus Amphitrite</i>	D	35

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Mihir Soni	Biology	Dickinson	Assessing the impact of abiotic factors on the activity of a trypsin-like protease found in barnacle glue	D	36
Thomas Bucek	Biology	Elderkin	Population Genetics of Margaritifera margaritifera	C	49
Shivani Patel	Biology	Elliott	Characterization of Large Genomic Deletions in Acinetobacter baylyi ADP1	B	55
Abigail Calixto	Biology	Elliott	Characterization of Mutations in Acinetobacter baylyi ADP1 yqgF Reveals an Unexpected Role in Enhancing Susceptibility to DNA Damage	D	38
Sam Dickinson	Biology	Erickson	Adenylyl cyclase type 6 effect on fibrosis in a murine model	B	56
Anshu Patel	Biology	Erickson	An in vitro study of "fictive" breathing: the effect of serotonin deficiency on respiratory output from the isolated brainstem-spinal cord of neonatal mice	A	28
Anirudh Goyal	Biology	Erickson	Combination of Metformin Plus Orlistat Prevents Tumor Progression	B	57
Mehr Mathew	Biology	Erickson	Comparing the Relative Expression of Alternatively Spliced Tissue Factor and Full Length Tissue Factor in Stable and Unstable Plaques from Patients Who Underwent Carotid Endarterectomies	B	58
Sapna Shah	Biology	Erickson	Maternal behavior in a serotonin-deficient context: continuing analysis of the Pet-1 knockout mouse	B	59
Aman Upadhyay	Biology	Erickson	Designing a method for non-invasive cardiorespiratory measurements in neonatal Pet-1 ^{-/-} mice	B	60
Chris Choi	Biology	Erickson	Adenylyl Cyclase Type 6's Effect on Infarct Size and Ventricular Tachycardia	C	50
Marcus Elias	Biology	Erickson	Administration of an antagonist of Pannexin 1 after Traumatic Brain Injury reduces inflammation	C	51
Lalitya Karra	Biology	Erickson	Design and Synthesis of a Chemical Probe	C	52
Amit Patel	Biology	Erickson	Chronic intermittent voluntary alcohol drinking induces hyperalgesia in Sprague-Dawley rats	C	53
Michael Song	Biology	Erickson	Effects of Chromatin Regulatory Proteins on Double Strand Breaks at Telomeres	C	54
Aparna Yarram	Biology	Erickson	A Preliminary Analysis of TRIM11	C	55
Meghan Barry	Biology	Erickson	Achieving Chimerism in Solid Organ Transplant Recipients	D	40
Jennifer Schablik	Biology	Figueroa; Dickinson	The effect of hydrophobic alkyl silane self-assembled monolayers on barnacle adhesion	C	23

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Students	Department	Faculty Mentor	Title of Presentation	Session	Location
Alexa Avitto and Nikita Paripati	Biology	Kress	An Investigation of the Role of the NuA4 and Swr1 Complexes in Coordination of Transcription and RNA Splicing	B	62
Danielle Flood	Biology	Kress	Histone H3K36 methylation is required for efficient pre-mRNA splicing in <i>Saccharomyces cerevisiae</i> .	C	56
Andrew Goldfarb	Biology	Lovett	Effect of salinity on gene expression for enzymes in the methyl farnesoate synthesis pathway in the green crab <i>Carcinus maenas</i> .	B	30
Marisa Grillo	Biology	Morrison	What is the role of bird dispersers in the invasion of non-native shrubs?	B	31
Jennifer Wells	Biology	Morrison	Japanese stiltgrass and garlic mustard: forest ecology and priority effects	B	32
Scott Eckert	Biology	Morrison	Juvenile trees in suburban forests: insights from structural equation modeling	C	24
Elizabeth Matthews Marisa Grillo	Biology	Morrison	An account of <i>Lonicera japonica</i> , being aided by an invasive shrub while inhibiting a native herb, leading to its successful invasion	C	25
Ryan Goolic Ryan Goolic	Biology	Morrison	Influence of <i>Microstegium vimineum</i> and white-tailed deer on earthworm abundance	D	9
Pavan Patel Arun Madari	Biology	Nayak	Investigating the impact of Cadmium on the lifespan of <i>Caenorhabditis elegans</i>	B	33
Lydia Huang	Biology	Nayak	Modeling the effects of HIF-1 on the Gompertz survival function parameters in <i>Caenorhabditis elegans</i>	C	26
Raquel Santos Sejal Shah	Biology	Nayak	The effects of sodium sulfite-induced hypoxia on the lifespan of <i>Caenorhabditis elegans</i> .	C	27
Hailey Marr	Biology	Nayak	Hypoxia and its Effects on Longevity and Reproduction in <i>Caenorhabditis elegans</i>	D	11
Aygen Hepurker	Biology	Nordquist	Community Earth	A	26
Kristen Randolph	Biology	Norvell	Investigation of the role of Squid in the repression of Gurken expression	B	34
Marc Sayegh	Biology	Norvell	Differential Polyadenylation in Sqd leads to varying UTR lengths	C	28
Edwin Londono	Biology	Norvell	Alternative Polyadenylation in gurken mRNA During Oogenesis of <i>Drosophila</i>	D	12
Rani Shah	Biology	Norvell	Roles of twin and sqd in <i>Drosophila</i> germline stem cell maintenance	D	13
Lauren McKay	Biology	O'Connell	Expression of zsqdA during Zebrafish embryogenesis	B	35

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Students	Department	Faculty Mentor	Title of Presentation	Session	Location
Luke Pasick	Biology	O'Connell	Maternal regulation of zsqidA during zebrafish embryogenesis	C	29
Leyla Karim Reena Ketkar Jessica Chmielewski Brian Moran Leyla Karim	Biology	Pecor	To be determined	D	14
Kate Badecker	Biology	Peel	Examining the effects of reducing tubulin glutamylation in triple mutant <i>C. elegans</i>	B	36
Monica Martinez Monica Chakraborty	Biology	Peel	Characterization of double mutant worms that have reduced microtubule glutamylating activity	B	37
Megan Brewster	Biology	Peel	Does tubulin glutamylation regulate microtubule severing in <i>C. elegans</i> ?	C	30
Aygen Hepurker	Biology	Peel	Examining the role of deglutamylating enzymes in the <i>C. elegans</i> germline	D	15
Roshni Patel	Biology	Reinert	Movement Parameters of the Massasauga Rattlesnake	B	38
Shai Bejerano	Biology	Reinert	Factors affecting habitat use of pine snakes (<i>Pituophis m. melanoleucus</i>) in the New Jersey Pine Barrens	C	31
Janis Tumaliuan Ashley Leto	Biology	Reinert	Effect of feeding on thermal response of Boa constrictor	C	32
Ashley Leto Ashley Leto Janis Tumaliuan	Biology	Reinert	Comparative Study of Dietary Habits of Boa Constrictor on the Island of Aruba	D	16
Chris Kim rgjhsig	Biology	Shevlin	gnrjgri	B	39
Jake Veliky Christopher Kim Deval Jhaveri Yea Yeon (Julie) Moon Jake Veliky	Biology	Shevlin	An Inter Sequence Simple Repeat- (ISSR) Marker-Based Analysis of a New Jersey Population of the Obligate Parasite <i>Sporisorium ellisii</i> on its Host Plant <i>Andropogon virginicus</i>	C	33
Shinal Kalia	Biology	Shevlin	An Inter Sequence Simple Repeat (ISSR) Marker-based Analysis of a Tyler State Park population of obligate parasite <i>Sporisorium ellisii</i> on its host plant <i>Andropogon virginicus</i>	D	17
Darshak Vekaria Frank Santisi	Biology	Shevlin	An Inter-Sequence Simple Repeat (ISSR) Marker-based Analysis of a Ohio Population of the Obligate Parasite <i>Sporisorium ellisii</i> on its host plant <i>Andropogon virginicus</i>	D	18
Nirmithi Borkhetaria	Biology	Wund		B	40
Farsha Rizwan	Biology	Wund		B	41
Rajath Kenath Nirmithi Borkhetaria	Biology	Wund	Adaptive Plasticity in Threespine Stickleback	C	34
Farsha Rizwan	Biology	Wund	ASSESSING THE EFFECT OF SOCIALIZATION ON THREE SPINE STICKLEBACK PREDATORY RESPONSES	C	35

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Students	Department	Faculty Mentor	Title of Presentation	Session	Location
Paul Mitchell	Biology	Wund	Extinction of Learning of Predator Cues in Threespine Stickleback Fish (<i>Gasterosteus aculeatus</i>)	D	19
MAX NAZARIO	Chemistry	ABOURAHMA	Synthesis of Metal-organic Frameworks Composed of Copper (II) and 1,2,4,5-benzenetetracarboxylic acid	B	42
Monica Strowbridge	Chemistry	Abourahma	Building Extended Metal-Organic Structures from Dimetal Tetracarboxylate Building Blocks	C	36
Dan Curran	Chemistry	Abourahma	Investigating Urea's Ability to Form Cocrystals with Benzamides for Nonlinear Optics	D	20
Allison Zumwalde	Chemistry	Allison	Uses of Mass Spectrometry	B	43
Courtney Amster Andrew Csimbok	Chemistry	Allison	The 15 Letters	D	21
Heba Jafri	Chemistry	Baker	Molecular simulations of lactose-bound and unbound forms of the FaeG adhesin reveal critical amino acids involved in sugar binding	B	44
Aleena Andrews	Chemistry	Baker	Investigating the dynamics and stability of the PilT motor protein using molecular dynamics	C	37
Troy Brier	Chemistry	Baker	Molecular simulations of type IV pilin subunits from three organisms in a lipid bilayer	D	22
Maria Minor	Chemistry	Baker; Sen	Investigation of protein stability and binding modes of ligands in human farnesyl pyrophosphate synthase using molecular dynamics simulation	C	38
Evan Li	Chemistry	Bradley	Cyclization Studies of Intermediates Derived From Aromatic Silyl Ketones	D	23
Daniela Mallack	Chemistry	Bunagan	An Investigation of the structural dynamics of an intrinsically disordered LEA protein	B	45
Maria Minor	Chemistry	Compte; Nordquist	The Health and Community Connection	B	29
Nader Refai	Chemistry	Fazen	Synthesis of Acetylated Temporin L	B	46
Joy Mohnot	Chemistry	Fazen	Synthesis of Acetylated Temporin F for Use Against Bacterial Persister Cells	C	39
Irene Molina Steven King	Chemistry	Fazen	Synthesis of Acetylated Antimicrobial Peptides for Use in Treating Bacterial Persister Cells	D	24
Kayla Gentile Kayla Gentile Sara Martin	Chemistry	Guarracino	Characterizing Novel Peptides as Anti-Thrombosis Agents	C	40
Susan Knox Dylan Nguyen	Chemistry	Guarracino	The development of stabilized cyclic peptides with potential anti-thrombosis activity	D	25
Gerald Decker	Chemistry	Hirsh	Stability and enzyme kinetics of the protease thermolysin	B	47

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Students	Department	Faculty Mentor	Title of Presentation	Session	Location
Katherine Fomchenko	Chemistry	Hirsh	Enzyme-Enzyme Proximity Stimulates iNOS Activity	C	41
Crowell David	Chemistry	Hirsh	NO Distance Measurements in Wild-Type Thermolysin/Inhibitor Complex	D	26
Marc Casale	Chemistry	Hunt	Reactions of Phenylethylamino Acid Amides	B	48
Amit Gupta	Chemistry	Hunt	A Study of the Formation of an N-Sn Bond	B	49
Andrew Glass	Chemistry	Hunt	Scope and limitations of a tandem Michael addition-cyclization via an alpha, beta unsaturated ketocyclohexanone	C	42
Catherine Morgan	Chemistry	Hunt	A Spin-labeled Thermolysin Inhibitor Chemical Probe for Protein Measurement	C	43
Alec Grossman	Chemistry	Hunt	Preparation and utility of highly functionalized 2-aminobenzophenones	D	27
Dan Curran	Chemistry	McGee; Abourahma	Functionalized polymer films for optical patterning applications	A	5
Catherine Lee	Chemistry	O'Connor	Norbornene Polymerization Initiated by Cationic (pi-Allyl)Nickel(II) Complexes Containing Dialkylbiaryl Phosphine Ligands	B	50
Tanya Townsend	Chemistry	O'Connor	Mechanistic and Kinetic Insights into Transfer Hydrogenation using Cp*Ir(pyridinesulfonamide)Cl Complexes	B	51
Andrew Ruff	Chemistry	O'Connor	Exploring the Use of Sodium Formate and Formic Acid as Hydrogen Sources for Transfer Hydrogenation with Cp*Ir(pyridinesulfonamide)Cl Precatalysts and Catalytic Deoxygenation of Acetophenone Derivatives using Tandem Catalysis	C	44
William Sabbers	Chemistry	O'Connor	Progress Towards Suzuki-Miyaura Coupling using (pi-allyl)Nickel(halide) Precatalysts Containing Dialkylbiaryl Phosphine Ligands	D	29
Matthew Gole	Chemistry	O'Connor; Chan	Synthesis and Electronic Properties of Transition Metal Complexes Containing Sulfonamidoquinoline Ligands	D	28
Priti Patel Andrea Garcia	Chemistry	Sen	Isolation and Enzymatic Analysis of Type 1 FPPS	C	45
Brandon Martinez Maria Minor Joseph Baker	Chemistry	Sen	Substrate Binding Analysis of Farnesyl Diphosphate Synthase Using	D	30
Connor Davis	Computer Science	Knox	Predicting Financial Market Trends to Inform Future Transactions: Applying Data Mining to Historical Stock Data	1:00-2:30	Forcina 4th Floor

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Students	Department	Faculty Mentor	Title of Presentation	Session	Location
Brandon Gottlob	Computer Science	Knox	Multithreaded Monte Carlo Simulation of Investment Portfolio Performance using OpenMP	1:00-2:30	Forcina 4th Floor
Thomas Coppola	Computer Science	Papamichail	Automated Fingering Assignments for Piano Music	1:00-2:30	Forcina 4th Floor
Angela Huang Andrew Miller	Computer Science	Papamichail	Maximally Compact Trees using the Fitch Parsimony Criterion	1:00-2:30	Forcina 4th Floor
Andrew Miller Angela Huang	Computer Science	Papamichail		1:00-2:30	Forcina 4th Floor
Surya Teja Chinta	Computer Science	Papamichail	Oligonucleotide design of orthogonal codon variant libraries of p	1:00-2:30	Forcina 4th Floor
John Andreula	Computer Science	Salgian	Visual Navigation with the Nao Robot	1:00-2:30	Forcina 4th Floor
Leanna Stecker	Computer Science	Salgian	Conducting Tutor with Myo Armband	1:00-2:30	Forcina 4th Floor
Michael Alexander	Math & Statistics	Clark	Approximating Solutions to Partial Differential Equations using Finite Difference Methods	B	1
Syndi Barish	Math & Statistics	Clark	Diffusion models in population genetics	B	2
Stephanie Marino	Math & Statistics	Clark	Partial Differential Equations Applied to Crime Rates	B	3
Lauren McAllister	Math & Statistics	Clark	A Mathematical Model of Brain Tumor Growth	B	4
Alexandra Reynolds	Math & Statistics	Clark	A Numerical Analysis of the Wind Turbine's Potential to Change the World	B	5
Genna Rivera	Math & Statistics	Clark	Pricing Options Using the Finite Difference Method	B	6
Peri Roshandel	Math & Statistics	Clark	Monte Carlo Method and Finance	B	7
Rachel Schade	Math & Statistics	Clark	Monte Carlo Simulation in Finance	B	8
Rebecca Shaber	Math & Statistics	Clark	The Black-Scholes Equation for Option Valuation	B	9
Tobi Alder	Math & Statistics	Hingston	Kepler's First Law	B	10
Travis Bialota	Math & Statistics	Hingston	Keplers Second Law	B	11
Jessica Boenigk	Math & Statistics	Hingston	Linking Numbers and DNA	B	12
Jacob Carino	Math & Statistics	Hingston	Lie Groups: SU(2)	B	13
Ben Castor	Math & Statistics	Hingston	Fundamental Groups and 3 Manifolds	B	14
Israel Curbelo	Math & Statistics	Hingston	Sard's Theorem	B	16

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Students	Department	Faculty Mentor	Title of Presentation	Session	Location
Alana Huszar	Math & Statistics	Hingston	Projective Space	B	17
Lindsay Hyndman	Math & Statistics	Hingston	The Gaussian Linking Integral and Linking Number	B	18
Matthew Klubeck	Math & Statistics	Hingston	Curvature in 2D: The Four Vertex Theorem	B	19
Rachel MacGrath	Math & Statistics	Hingston	Kepler's Third Law	B	20
Zonia Menendez	Math & Statistics	Hingston	Lie Groups: $SO(2)$ & $SO(3)$	B	21
Jessica Santana	Math & Statistics	Hingston	Curvature in 2D	B	22
Eric Wagner	Math & Statistics	Hingston	Winding Numbers and the Fundamental Theorem of Algebra	B	23
Rose Costanzo	Math & Statistics	Hingston; Clifford	Solving Equations over $SL(2,R)$	B	15
Matthew Taylor	Math & Statistics	Ochs	The Validity of Survival-based Biomarkers Generated from High-Dimensional Data	B	24
Yegor biryukov	Math & Statistics	thayer	Determining qualities of winning nfl teams through regression and principal component analysis	B	25
Sibi Menon	Math & Statistics	Thayer	An analysis of Drug Abuse at TCNJ using the ACHA/NCHA survey data	B	26
Jonathan Tseng	Math & Statistics	Thayer	"The career arc of NBA players and its implications on roster construction"	B	27
Jennifer Stranz	Math & Statistics	Van der Sandt	The Impact of Technology on Math Anxiety	B	28
Kevin Hurler	Physics	Benoit	Analyzing the Crustal Thickness of Northern New York and Southern Ontario	A	1
Stefan Maciolek	Physics	Benoit	Depth of the Lithosphere-Asthenosphere Boundary as imaged by S-to-P Seismic Receiver Functions Beneath the Appalachian Mountains	A	2
Em Schnorr	Physics	Benoit	Calculating Surface Wave Velocities through Ambient Seismic Noise Analysis for the Lithosphere in the Mid-Atlantic Region	A	3
Edmund Witkowski Ben Campos	Physics	Mcgee	Fabrication and characterization of SU8-DR1 holographic thin films	A	4