



Note: Expected presentation length is marked below. Please also allow between 5-15 minutes for questions, proportional to the length of the presentation.

Time	Session	Student(s)	Presentation Title	Institution	Faculty & GA Mentors	Local chair
11:00	Mathematics	Ashley Johnson Raymond Zhong Kevin Schiroo Ryan Lane	Numerical Analysis of Multiple Myeloma Model (25 min.)	UI	Dr. Bruce Ayati Rebecca Gasper Xiayi Wang	Dr. Paul-Hermann Zieschang
11:30	Mathematics	Collin Tjepkes Natalie Clark Wilson Alvarez	A Look into the Logistic Map (25 min)	UI	Dr. Gerhard Strohmer Stephen Welch	
12:00	Lunch in IMU Ballroom					
1:00	Mathematics	Alexander Sistko Aqeeb Sabree Mary Bohlke Nathan Bishop	τ_n - Factorization (25 min)	UI	Dr. Dan Anderson Alina Florescu Jason Juett Ross Kilgore, Chris Mooney	Dr. Victor Camillo
1:30	Mathematics	Anna Cepek My Huynh Kirill Lazebnik	Zero Forcing Number, Maximum Nullity and Path Cover Number of Edge Subdivision Graphs (45 min)	ISU	Dr. Leslie Hogben Dr. Michael Young Dr. Minerva Catral Travis Peters	
2:30	Break in Third Floor Lobby					
3:00	Mathematics	Bridget Toomey Dylan Macuk Gabriel Porrata Kraig Thomas	Dynamic Analysis of Optic Flow Using Eye Pursuit (25 min)	UI	Dr. Keith Stoyan Andrew Greene	Dr. Keith Stoyan
3:30	Mathematics	Justin Cyr Nathan Meyers Crystal Peoples	Matrices of Continuous Functions (30 min)	ISU	Dr. Justin Peters Jason Ekstrand	
4:00	ISU Student Evaluations					



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Time	Session	Student(s)	Presentation Title	Institution	Faculty & GA Mentors	Local chair
11:00	Biostatistics	Lauren Mondin Keishla Lucena-Vega	Analysis of Iowa's 2009 and 2010 Child Passenger Safety Survey Data (20 min.)	UI	Dr. Joe Cavanaugh	Dr. Jeffrey Dawson
11:30	Biostatistics	Hector Morantes Katie Whittington Shelby Becker	Language Development for Hearing Impaired Children (25 min)	UI	Dr. Jake Oleson	
12:00	Lunch in IMU Ballroom					
1:00	Biostatistics	Paula Rivera-Torres Jorge Leon	Gender Differences in Pulmonary Functions and Lung Parenchyma Measurements: The Use of Propensity Scores (20 min)	UI	Dr. Gideon Zamba	Dr. Brian Birgen
1:30	Biostatistics	Brian Greco Idalyn Mirabal-Rios	Modeling Glaucoma Progression Using Partial Differential Equations and Regression (20 min)	UI	Dr. Brian Smith	
2:00	Biostatistics	Amy Ruiz Kayse Lee Nicole Lovell	Data Quality Management of Black Box Monitored Driving Behaviors in a Sleep Apnea Study (25 min)	UI	Dr. Jeff Dawson	
2:30	Break in Third Floor Lobby					
3:00	Biostatistics	Emily Simmons Tara Negron Toni Salvatore	Asthma and Particulate Air Pollution: A Spatial Analysis (25 min)	UI	Dr. Kate Cowles	Dr. Bruce Ayati
3:30	Biostatistics	Emily Simmons Tara Negron Tommy Keller Toni Salvatore	High Performance Computing for Science and Statistics (25 min)	UI	Dr. Kate Cowles	
4:00	UI Student Evaluations					



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2011

Iowa Summer Research Symposium

Room Schedule for Thursday, July 28

Michigan Room, 351 IMU

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Time	Session	Student(s)	Presentation Title	Institution	Faculty & GA Mentors	Local chair
8:15	Mathematics	Xavier Garcia Jennifer Kunze Thomas Rudelius Anthony Sanchez Sijing Shao Emily Speranza	Stochastic and Deterministic Hybrid Systems (90 min)	ISU	Dr. Wolfgang Kliemann Kimberly Ayers Chad Vidden	Rebecca Gasper
9:45	Break in Third Floor Lobby					
10:00	Mathematics	My Huynh Sarah Meyer Shanise Walker	Propagation Times for Graphs (45 min)	ISU	Dr. Leslie Hogben Dr. Michael Young Nicole Kingsley	Chenhong Zhu
11:00	Mathematics	Angelica Gonzalez George Shakan	Directed Strongly Regular Graphs Coming from Partial Geometries (30 min)	ISU	Dr. Sung-Yell Song Oktay Olmez	
11:30	Mathematics	Chetak Hossein Charles Watts	Vertex-Transitive Directed Strongly Regular Graphs (30 min)	ISU	Dr. Sung-Yell Song Oktay Olmez	
12:00	Lunch					

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Iowa Summer Research Symposium

Room Schedule for Thursday, July 28

Northwestern Room, 345 IMU

Time	Session	Student(s)	Presentation Title	Institution	Faculty & GA Mentors	Local chair
8:30	Mathematics	Benjamin Drabkin Jonathan Marshall Madiyana Diouf Renesha Hendrix	Matrix Sums and Pairwise Orthogonal Idempotents (25 min)	UI	Dr. Victor Camillo Nick Teff Syvillia Averett	Dr. Mariah Birgen
9:00	Mathematics	Dwight Williams, Jr. David Hanle Katie Burke	Cyclotomy and Representation Theory (20 min)	UI	Dr. Phil Kutzko Paul Savala	
9:30	Break					
10:00	Mathematics	Elizabeth Phelan Hannah VanEvera Quesly Daniel, Jr. Yao Wang	Parameterized Knots and Symmetries (25 min)	UI	Dr. Jonathan Simon Erik Insko Greg Ongie	Syvillia Averett
10:30	Mathematics	Alysee Haferman Haohan Li Justina Cline Ruqiah Muhammad	Where's Waldo? (25 min)	UI	Dr. Palle Jorgensen Kai Tsuruta Greg Ongie	
12:00	Lunch					