MATH 125 Draft Schedule – Updated 4/11/2023

Thursday, April 27, 2023 – Courtyard by Marriott

6:00 – 8:00 pm Reception

Friday, April	28, 2023 – NIC Conference Center				
8:15	Registration begins				
8:45 am	Opening session				
9:05 am	John Meakin , Milton Mohr Emeritus Professor of Mathematics at UNL Title: <i>Research and graduate education in mathematics at the University of Nebraska</i> <i>Lincoln: a pocket history</i>				
9:55 am	Gopi Shah Goda , Senior Fellow at the Stanford Institute for Economic Policy Research at Stanford University Title: <i>Lessons Learned from Math 107H to the White House</i>				
10:45 am	Break (Coffee and Snacks)				
11:15 am	Special Session Talks #1 11:15 – 11:35 11:45 – 12:05 				
12:15 pm	Lunch				
1:15 pm	Michael Parks , Director, Computer Science and Mathematics Division, Oak Ridge National Laboratory Title: <i>Real-World Impacts of Mathematics</i>				
2:15 pm	Panel: My graduate school experience. Reflections from women who earned PhDs at UNL. Panelists: Raegan Higgins (2008), Katie Morrison (2012), Jennifer Mueller (1997), Kristin Pfabe (1995), and Karina Uhing (2020)				
3:05 pm	Break				
3:30 pm	Jane Meza, UNMC Associate Vice Chancellor, Office of Global Engagement and Professor, Department of Biostatistics Title: What I learned from the question I asked as an undergraduate: What can I do with a math degree?				
4:30 pm	Special Session Talks #2 4:30 - 4:50 5:00 - 5:20				
5:30 6:00	Cash Bar Reception before Banquet Banquet				

Judy Walker, Aaron Douglas Professor of Mathematics and UNL Associate Vice Chancellor for Faculty and Academic Affairs Title: *Women in Math at Nebraska*

Saturday, April 29 – Avery Hall

8:00 - 10:00	Registration				
8:30	Panel: <i>Using mathematics outside of academia.</i> Panelists: Josh Brown-Kramer (Ocuvera), Paula Egging (Bryan Health), Jesse Moeller (SpaceX), Michael Parks (Oak Ridge), Laura White (NASA)				
9:30	Graham Leuschke, Professor and Chair, Department of Mathematics, Syracuse University Title: Climbing the Chimney				
10:20	Break				
10:45	Special Session Talks #3 10:45 – 11:05 11:15 – 11:35 11:40 – 12:00				
12:10	Closing session				

Special session speakers

Day and Time	Faculty Research	Achievements of	Math Outside	Math Education
		our Graduates	Academia	
Friday 11:15	Yu Jin	Jennifer Mueller	Laura White	Allan Donsig
Friday 11:45	Mikil Foss	Katie Morrison	Amy Bouska	Raegan Higgins
Friday 4:30	Xavier Pérez	Karina Uhing	Derek DeSantis	Kristin Pfabe
Friday 5:00	Chris Schafhauser	Josh Pollitz	Levi Heath &	Matt Larson
			Gabe Payson	
Saturday 10:45	Mark Brittenham	Paula Egging	Josh Brown	Michelle Homp
			Kramer & Lucas	
			Sabalka	
Saturday 11:15	Tom Marley	Anisah Nu'man	Brittney Keel-	Delise Andrews
			Mercer	
Saturday 11:30	Yvonne Lai	Jesse Moeller	Lisa Davis	Katie Soto

Special Session Themes: Special Sessions are organized around the following themes.

- Faculty research
 - Mark Brittenham, Professor, UNL Department of Mathematics Title: *Topological conjecture-busting*
 - Mikil Foss, Professor, UNL Department of Mathematics
 - o Xavier Perez Gimenez, Associate Professor, UNL Department of Mathematics
 - Yu Jin, Associate Professor, UNL Department of Mathematics Title: *Mathematical modeling and analysis in population dynamics*
 - Yvonne Lai, Milton Mohr Associate Professor, UNL Department of Mathematics Title: 115 years since Felix Klein's naming of the Double Discontinuity
 - Tom Marley, Professor, UNL Department of Mathematics Title: *A history of commutative algebra at Nebraska*
 - Chris Schafhauser, Assistant Professor, UNL Department of Mathematics Title: *Approximate finite-dimensional representations of groups*

• Achievements of our graduates

- Paula Egging, Data Scientist, Bryan Health Systems
 Title: One Mathematician's Experience of Data Science in Healthcare
- Jesse Moeller, Software Engineer, SpaceX Title: TBA
- Katie Morrison, Associate Professor, University of Northern Colorado
- Jennifer Mueller, Professor, Colorado State University Title: *Inverse Problems and Pulmonary Imaging*
- Anisah Nu'Man, Assistant Professor, Spelman College
- Josh Pollitz, NSF Postdoctoral Fellow, University of Utah Title: *Instilling High Expectations*
- Karina Uhing, Assistant Professor, University of Nebraska at Omaha
 Title: Innovations in First-Year Mathematics Courses: Using Research to Inform Practice

• Mathematics outside academia

- Amy Bouska, former managing director, Tillinghast Title: *Becoming the Spreadsheet Lady*
- Josh Brown Kramer, senior data scientist, Ocuvera and Lucas Sabalka, chief data and analytics officer, Ocuvera
 Titles Self Brown tion with AL at Ocuvera
 - Title: Fall Prevention with AI at Ocuvera
- Lisa Davis, adjunct operations researcher, RAND corporation Title: *Oh, the places you can go!*
- Derek DeSantis, staff scientist, Los Alamos National Laboratory Title: A Glimpse of Mathematics Research at the National Labs
- Levi Heath, UNL postdoctoral associate and Gabe Payson, Math in the City student Title: *Math in the City: Comparing Neural Network and Regression Models in Predicting Lancaster County Housing Prices*

- Brittney Keel-Mercer, research animal geneticist, USDA
 Title: Development of online systems for monitoring behaviors of individual animals in livestock production
- Laura White, aerospace engineer, NASA Langley Research Center Title: *The Day in the Life of a NASA Mathematician*

• The department's commitment to mathematics education

- Delise Andrews, Grades 3-5 mathematics coordinator, Lincoln Public Schools Title: *My Mathematics Learning Journey: The Power of Sense-Making*
- o Allan Donsig, Professor and Vice Chair, UNL Department of Mathematics
- Raegan Higgins, Associate Professor & Assistant Vice Provost for Faculty Success, Texas Tech University
 Title: *Reach Back and Go Forward*
- Michelle Homp, Associate Professor of Practice and NMSSI Director, UNL Title: NebraskaMATH goes to Africa
- Matt Larson, Associate Superintendent for Instruction, Lincoln Public Schools and former President, National Council of Teachers of Mathematics Title: Serving the Needs of K-12 Mathematics Teachers in the Post-Covid Era
- Kristin Pfabe, Professor and Chair, Mathematics and Computer Science Department, Nebraska Wesleyan University
 Title: The Transformative Experience of Teaching Math in Prison
- Katie Soto, Professional Development Specialist, Educational Service Unit 9 Title: *From Student to Educator: A Mathematical Journey*