

# SINGLE SLIDE SHOWCASE PROGRAM

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- **Joanna Niezen - A Short Biography on 2022 Fields Medallist Maryna Viazovska:** Maryna describes her life, her work, and the impacts of the war on Ukraine.
- **Manroop Thandi - Identifying Shelter Needs in Metro Vancouver:** This presentation is about research completed in MATH 402W to estimate future shelter demand rates in the Metro Vancouver region, identifying communities where additional shelter resources are needed.
- **Mahsa Ansari - GCDs of Multivariate Polynomials over Algebraic Number Fields:** We look at computing GCDs of Multivariate Polynomials over Algebraic Number Fields Presented with Multiple Extensions
- **Matt DeVos - Vera Sos, Life's work and Legacy:** Vera Sos, one of the founders of modern combinatorial theory, died last month (age 92); I will tell a little about her work and her legacy.
- **Jenya Sourgaeva & Angelika Nowlan - Optimizing Product Allocation for Grocery E-Commerce Fulfillment:** The presenters propose a model, based on the binary knapsack problem, to help a grocery store allocate their products to optimize the time it takes to fulfill online orders.
- **MacKenzie Carr - Genus Distributions of Cubic Graphs:** A brief overview of my current research on genus distributions and genus polynomials of graphs, and their log-concavity.
- **Ailene MacPherson - Mathematics in White Sands**