



The Department of Mathematics at California State University, Northridge invites you to join us via Zoom Webinar for a day celebrating mathematics research, education, and career exploration. The event includes faculty and student presentations and alumni panels.

PROGRAM

11 am	Welcome
	<p><i>Rabia Djellouli</i> Department Chair</p>
11:05 – 11:55 am	Faculty Research Presentations
Session Chair	<p><i>Emmanuel Yomba</i> Professor of Mathematics</p>
Presenter	<p><i>Jing Li</i> Associate Professor of Mathematics</p>
	<p>Modeling Waning and Boosting of COVID-19 in Canada with Vaccination</p> <p><i>Several vaccination policy-making bodies, including the Government of Canada’s National Advisory Committee on Immunization (NACI), have solicited transmission modeling studies to evaluate possible strategies for allocating vaccines against SARS-CoV-2. Most models of the transmission of SARS-CoV-2 are modifications of a classic model in population biology in which the host population is partitioned into those who are susceptible to infection; infected, but not yet infectious; infectious; and removed from the process to include features of the biology of COVID-19 that might affect transmission (e.g., pre- and asymptomatic infections, hospitalization of some with symptomatic infections, vaccination, mortality, and waning of immunity). We have used a model with some of these features that however emphasizes the waning and boosting of immunity and relationship between immunity when infected and disease to answer some of the questions posed by the NACI.</i></p>
Presenter	<p><i>David Klein</i> Professor of Mathematics</p>
	<p>Climate Models & the Climate Crisis: An Overview</p> <p><i>A brief introduction to the mathematics of climate science and the magnitude of the climate crisis will be given. Questions about what to expect in the future, and what can be done will also be addressed.</i></p>

12:00-12:45 pm Discover CSUN Math: Information Session

Presenters

Natalie Howe

Mathematics Academic Advisor

Alberto Candel

Mathematics Graduate Program Coordinator

Andrea Nemeth

Associate Director of Mathematics Tutoring Center

Mary Rosen

Associate Chair

Want to learn more about what CSUN Math has to offer? This is the perfect session for prospective students and family members interested in learning more about our undergraduate and graduate programs and department resources. You will hear from those who work closely with students to support them through their journey and have the opportunity to ask questions live.

1-2:15 pm Student Research Presentations

Session Chair

Jason Lo

Assistant Professor of Mathematics

Presenters

Gulnaz Shalgumbayeva, Erick Castillo

BS Candidates in Mathematics – Statistics

Statistical Analysis of COVID-19

Faculty Advisor: Carol Shubin

Presenter

Julian Corpeno

MS Candidate in Mathematics

Solving a Generalized Gepner Equation for Bridgeland Stability on Elliptic Surfaces

Faculty Advisor: Jason Lo

Presenter

Inga Girshfeld

MS Candidate in Mathematics - Applied Mathematics

High-Order Wave Tracking Strategy for Solving High-Frequency Scattering Problems

Faculty Advisor: Rabia Djellouli

Presenter

Brandon Sripimonwan

MS Candidate in Mathematics

Exploring Local Crossing Numbers of Complete Bipartite Graphs

Faculty Advisor: Silvia Fernandez

Presenter

Courtney van der Linden

MS in Mathematics - Applied Mathematics, CSUN 2020

Correlation of Golay–Rudin–Shapiro Sequences

Faculty Advisor: Daniel Katz

2:15-3 pm Musical Intermission

Enjoy music by the *Johnny Blue Jay Band* featuring

Jerry Rosen

Professor of Mathematics

John Sikora

BA in Pure Mathematics, CSUN 2005

MS in Mathematics, CSUN 2008

Greg Imhoff

MS in Mathematics, CSUN 2013

Sam McAdam

3-3:55 pm University & Community College Teaching Panel

Panel Moderator Silvia Fernandez

Professor of Mathematics

Alumni Panelist Kevin Balas

Instructor of Mathematics

Department of Mathematics

Moorpark College, California

BA in Mathematics – Secondary Teaching, CSUN 2011

MS in Mathematics, CSUN 2014

Alumni Panelist Dr. Bret Holladay

Assistant Professor of Mathematics

Department of Mathematics

Cal Poly, SLO, California

BS in Applied Mathematics, CSUN 2011

MS in Applied Mathematics, CSUN 2014

PhD in Statistics and Applied Probability, UC Santa Barbara 2019

Alumni Panelist Melida Paz

Instructor of Mathematics

Department of Mathematics

Bakersfield College, California

BS in Mathematics – Secondary Teaching, CSUN 2016

MS in Mathematics, CSUN 2018

Alumni Panelist Dr. Azadeh Rafizadeh

Associate Professor of Mathematics

Department of Mathematics and Data Science

William Jewell College, Missouri

BA in Pure Mathematics, CSUN 2003

MS in Mathematics, UC Riverside 2007

PhD in Mathematics, UC Riverside 2011

Alumni Panelist	<i>Dr. Evan Randles</i> Assistant Professor of Mathematics Department of Mathematics and Statistics Colby College, Maine
	BA in Mathematics and BS in Physics, CSUN 2010 MS in Applied Mathematics, CSUN 2011 PhD in Applied Mathematics, Cornell University 2016
Alumni Panelist	<i>Yerenuhi Semerdjian</i> Instructor of Mathematics Department of Mathematics Los Angeles Pierce College, California
	BS in Astrophysics with Mathematics Minor, CSUN 2006 MS in Mathematics, CSUN 2010
4-4:55 pm Secondary Teaching Alumni Panel	
Panel Moderator	<i>Kellie Evans</i> Professor of Mathematics
Alumni Panelist	<i>Aida Britton</i> Mathematics Teacher Louisville High School, Woodland Hills
	MS in Mathematics, CSUN 2020
Alumni Panelist	<i>Diana Contreras</i> Mathematics Teacher Panorama High School and Magnets, Panorama City
	BA in Mathematics – Secondary Teaching, CSUN 2018
Alumni Panelist	<i>Helena Dallas</i> Mathematics Teacher Sylmar Charter High School, Sylmar
	BA in Mathematics – Junior Year Integrated Credential Program, CSUN 2020
Alumni Panelist	<i>Robert Hammell</i> Mathematics Teacher and Department Chair Burbank High School, Burbank
	BA in Mathematics – Four Year Integrated Credential Program, CSUN 2008 MA in Secondary Education – Mathematics Education, CSUN 2012
Alumni Panelist	<i>Samantha Maxey</i> Mathematics Teacher Castaic Middle School, Castaic
	BA in Mathematics – Secondary Teaching with Finance Minor, CSUN 2017

5-5:55 pm Industry Alumni Panel	
Panel Moderator	Mark Schilling Professor of Mathematics
Alumni Panelist	Dr. Samuel Fleischer System Engineer NASA Jet Propulsion Laboratory BS in Mathematics, CSUN 2015 PhD in Applied Mathematics, UC Davis 2020
Alumni Panelist	Sara Fratianne Senior Business Manager Microsoft Azure BS in Applied Mathematics, Loyola Marymount University 2005 MS in Mathematics, CSUN 2007 MBA in Finance, Strategic Management, Managerial and Organizational Behavior, University of Chicago, Booth School of Business 2014
Alumni Panelist	Pareen Kalia Senior Data Scientist Farmers Insurance BTech in Computer Engineering, NMIMS 2012 MS in Applied Mathematics, CSUN 2017
Alumni Panelist	Andy Milne Senior Software Engineer Walt Disney Animation Studios BS in Mathematics and BSE in Computer Engineering, University of Michigan 2001 MS in Applied Mathematics, CSUN 2015
6pm Closing Remarks	
	Rabia Djellouli Department Chair