

Professional Development Seminar: MAT 591 (SLN) 21290 Spring 2023: Monday 4:15-5:15pm.

Week	Date	
1	January 9	
2	January 16	Martin Luther King Day
3	January 23	Shiwei Lan, Bridge to Research, Bayesian spatiotemporal modeling on function spaces Wxlr 206 Presentation Link
4	January 30	Lauren Hardy, MA Statistics, May 2022, Now at Mitre ZOOM ASU News Story
5	February 6	Dr. April Strom, Chandler-Gilbert Community College Wxlr 109 https://www.linkedin.com/in/april-strom-20095729/ When research in mathematics education and community colleges intersect: Carving my own path
6	February 13	Andy Nonaka, Berkeley Lab (zoom) Applied Mathematics and High Performance Computing in Berkeley Lab's CCSE Registration will be required https://us06web.zoom.us/j/87813100160
7	February 20	David Tello https://www.linkedin.com/in/tellodavid/ Wxlr 206 Market Risk Analysis Quantitative Analyst II, Ph.D. 2012
8	February 27	Sachin Shetty https://www.linkedin.com/in/sachinshetty/ ZOOM Senior Vice President AI & ML Momentum Financial Services Group My Professional Journey as an Applied Mathematician: Problems in Consumer Lending
9	March 6	Spring Break
10	March 13	Bethany Lusch, Argonne National Lab (zoom) Accelerating Simulations with Machine Learning Registration will be required https://us06web.zoom.us/j/87813100160
11	March 20	Professor Sebastien Motsch, Bridge to Research Wxlr 206 Also zoom: https://us02web.zoom.us/j/82019284369 , password=261217
12	March 27	Dylan Weber, Director Artificial Intelligence, magi https://magi.ai/
13	April 3	Professor Wenbo Tang, Bridge to Research Wxlr 206 Also zoom: https://us02web.zoom.us/j/86736865383 , password=833889
14	April 10	Erik Andries http://www.hpc.unm.edu/~andriese/biography.html ZOOM https://www.linkedin.com/in/erik-andries-b8809535/
15	April 21	Math Bio Panel (note the day)
16	April 24	Brendt Wohlberg in DoMSS

Professional Development Seminar: MAT 591 (SLN 81391) Fall 2022: Monday 4:15-5:15pm.

Week	Date	
1	August 22	Ricardo Cortez: Computational Models of Self-Propelled Microorganisms
4:30-5:30	Wxlr 21	Colloquium https://sse.tulane.edu/math/faculty/cortez
2	August 29	Organization
3	September 5	Labor Day: September 9 DEIB committee panel and presentation
2:30pm	Wxlr 206	Writing diversity statements for job applications
4	September 12	Mitchell O'Brien, Data scientist, Honeywell (MS Stat ASU)
	Wxlr 206	https://www.linkedin.com/mwlite/in/mitchell-o-brien-b31677168 Data Science Solutions at Honeywell : Social Event at 3:45 Meet and Greet in Wxlr 206
3:45pm	Please join us to meet the speaker. Sponsored by the Stats Graduate students:	
4	September 16	Julia Inozemtseva, Senior Lecturer, SoMSS
	https://math.asu.edu/node/8393 Teaching statements for Academic Positions (DEIB Seminar)	
2:30pm	https://asu.zoom.us/j/89151319807?pwd=YzhaZVRhSDYxd1VUQkVYcS9UcXc1UT09	
5	September 19	Dr. Elpiniki Nikolopoulou, Data Scientist, Nationwide,
Wxlr 206	Ph.D. Applied Mathematics, 2020 https://www.linkedin.com/in/elpinikinikolopoulou/	
5:30pm	Meet and Greet the speaker sponsored by the AWM Student Chapter at ASU	
6	September 26	Professor Katrina Bossert, https://www.bossertresearch.info/home
ZOOM	Bridge to Research Waves from Earth's surface to the edge of space The near space environment of Earth is a highly active region. This area of space includes the spacecraft exit/re-entry region and the region in which satellites orbit. There are many aspects that are important for our understanding of satellite orbits, communication, effects that influence spacecraft re-entry, and particle precipitation into the atmosphere. The near space-region incorporates the transition of the neutral atmosphere to the ionosphere, and experiences effects from terrestrial forcing from below as well as solar and magnetospheric influences from above. This talk discusses remote sensing of the near-space environment of Earth and the associated dynamics and terrestrial forcing that impact space weather and variability in this region.	
7	October 3	Intern Panel, Brian Sweeney, Argonne National lab, Shuyi Li, Intuit, Palak Jain, Reality AI
	Wxlr 206	Jacob Roarty, Nevada National Security Site (NNSS) Hear the experiences from our students
8	October 10	Fall Break
9	October 17	Professor Eleni Panagiotou, ASU, https://search.asu.edu/profile/4371234
Wxlr 206	Bridge to Research: Topology of polymers, biopolymers, textiles and other filamentous matter	
	We have all experience entanglement in our every day life; from tying our shoelaces to entanglement of headphones and to the textiles that we wear, we intuitively understand the mechanical effects of entanglement. Entanglement of filamentous structures is present in many systems with different implications. In biology, entanglement is present in DNA and in proteins, where it can either facilitate or disrupt function and lead to disease. Polymer entanglement is also important in industry since it regulates viscoelastic properties of material. But, what is entanglement? How can we measure it? This question has challenged scientists for many decades. Thinking of these filaments as mathematical curves in space, we could think of employing tools from topology to study their complexity. In the context of mathematical topology, we can rigorously classify knots and links (simple closed curves in space). This approach has been very successful to understand aspects of DNA topology. But the majority of physical filaments cannot be modeled by knots/links since they have distinct ends. In this talk we will see how we can answer this problem using tools from topology and geometry to create a new framework in mathematics that extends the study of knots and links to open curves in 3-space. We will also show hand-in-hand how these new mathematics are immediately applied to reveal new aspects of materials and biopolymer function through computation and testing against experimental data. This cutting edge area of research is promising for an unexpected application of mathematics to contributing to answering major pressing problems related to health and disease, as well as manufacturing.	
10	October 24	Professor Erwin Suazo, University of Texas Rio Grande Valley
ZOOM	https://faculty.utrgv.edu/erwin.suazo/ PhD, Arizona State University, 2009.	
11	October 28	Lee Spence https://asu.zoom.us/j/6292667727 1:30-3pm
	Zoom	Overleaf https://www.linkedin.com/in/lee-spence-a00348ba/
12	November 7	Professor Jonathan Montaña, ASU, Bridge to Research
	Wxlr 206	http://math.la.asu.edu/~montano/
	Asymptotic invariants in commutative algebra It is a fundamental strategy in commutative algebra to study the asymptotic behavior of objects related to a given ring. In many cases, the information obtained from the limit behavior can be translated back to properties of the ring. In this talk I will present some of these asymptotic invariants and how studying them leads to interesting consequences in related fields such as combinatorics, and algebraic and convex geometry.	
13	November 14	Rescheduled to January
14	November 21	Improving Math teaching practices for SoMSS TAs
	ZOOM Facilitating mathematical discussions among students using animations or applets: Presentation and panel Sponsored by SoMSS Mathematics Education Graduate Students	
15	November 28	Jarom Hogue. ASU Applied Math 2020. https://www.sci.utah.edu/people/jdhogue.html
	Wxlr 206	Postdoctoral Fellow Scientific Computing and Imaging Institute, University of Utah

Professional Development Seminar: MAT 591 (SLN) 22825 Spring 2022: Monday 4:15-5:15pm.

Week	Date	
1	January 10	Josh EmBree, Lead Data Scientist, Natera, https://www.natera.com/ Ph.D. Stats, UCLA, B.S. ASU Math 2011 Wxlr 206
2	January 17	Martin Luther King Day
3	January 24	Kevin Flores, NC State, Associate Professor Ph. D. Applied Math (Math Bio), 2009 ZOOM
4	January 31	Abigael Nachtsheim, Los Alamos National Laboratory Ph. D. Statistics, 2020 ZOOM
5	February 7	Dr. Andrew Gillette, (4pm - 5pm) https://akgillette.github.io/ Why are Mathematicians Jumping on the Machine Learning Bandwagon? Computational Mathematician, Center for Applied Scientific Computing Lawrence Livermore National Laboratory Register in advance at https://us06web.zoom.us/meeting/register/tZ0od0igrD0rGtLq1HyszGw_pYTw-1M0oC-i
6	February 14	Lauren Crow, Oncology clinical trial statistician Ph. D. Statistics, Spring 2021 Janssen https://www.janssen.com/emea/our-focus/oncology ZOOM
7	February 21	Delayed
8	February 28	Mary Cook, Visiting Assistant Professor, University of Rochester, Ph. D. Theoretical Mathematics, Summer 2021 https://news.asu.edu/20210823-math-phd-grad-started-passion-music ZOOM
9	March 7	Spring Break
10	March 14	Delayed to Fall
11	March 21	Alex Farrell, Caris Life Sciences https://sites.google.com/math.arizona.edu/alexfarrell/ https://www.linkedin.com/in/alex-farrell-96300a81/ Ph.D. Applied Mathematics, 2017, Math Bio, Prof Thieme. <i>From graduate school to postdoc to industry: a less than smooth transition</i> Wxlr 206 Pizza at 3:30
12	March 28	Dr. Scott Mitchell, Sandia National Laboratories https://cfwebprod.sandia.gov/cfdocs/CompResearch/templates/insert/profile.cfm?samitch Computing Geometry as a Mathematician in an Engineering Laboratory NOTE TIME: 4pm Register in advance at https://us06web.zoom.us/meeting/register/tZIud0CrrjgvGdbBrmIThEbpTlWsyrfE1s4j
13	April 4	Dr. Alejandra Alvarado, Eastern Illinois University https://castle.eiu.edu/~aalvarado2/ , Ph.D. Mathematics, 2009, Prof Bremner ZOOM My Post-Grad Mathematical Journey
14	April 11	Canceled
15	April 18	Dr Tammy Kolda https://www.mathsci.ai/ Tensor Moments of Gaussian Mixture Models ZOOM (1:30pm) Member of the National Academy of Engineering Society for Industrial and Applied Mathematics Fellow, Association for Computing Machinery Fellow
16	April 25	Last Day

Fall 2021

Week	Date	
1	August 23	Overview and Introduction ZOOM Sharon Crook and Rosemary Renaut
2	August 30	Aaron Packer, Ph.D. 2014, Applied Mathematics, (IN PERSON), Wxlr 206 Senior software development engineer at Amazon https://www.linkedin.com/in/aaronpacker/
3	September 6	Labor Day
4	September 13	Internship Panel. Our graduate students discuss their summer internships 2021 Wxlr 206 Judy Yun (Intel), Demetrios Papakostas (RAND), Kiko Castillo Carrasco (Arize) Victoria Uribe (Air Force Research Laboratory in Dayton, OH)
5	September 20	Rebecca Everett, Ph. D. 2015, Applied Mathematics ZOOM Assistant Professor, Haverford College, https://www.haverford.edu/users/reverett https://www.linkedin.com/in/rebecca-everett-b9756a1a0/
6	September 27	Postdoc Panel Wxlr 206 Mirjeta Pasha, Gordon Kirby and Maxwell Stolarski
7	October 4	Kyran Cupido, Ph.D. 2020, Statistics, Assistant Professor, = ZOOM St. Francis Xavier University, Nova Scotia, Canada https://www2.mystfx.ca/math-stats/kyran-cupido Interests in: Actuarial Science, Spatial Statistics, Data Science
8	October 11	Fall Break
9	October 18	Kyle Irimata, Ph.D. 2018, Statistics ZOOM Mathematical Statistician at U.S. Census Bureau https://www.linkedin.com/in/kyleirimata/
10	October 25	Julia Inozemtseva, Lecturer, SoMSS ZOOM Teaching and Diversity statements for Academic Positions
11	November 1	Funding Opportunities in the Mathematical Sciences: DoD, NIH, Simons, NSF ZOOM Doug Cochran, Sharon Crook, Brett Kotschwar, Julien Paupert
12	November 8	
13	November 15	Aaron Jesse, Ph.D. 2019, Applied Mathematics ZOOM Resident Faculty, Scottsdale Community College
14	November 22	Monday before Thanksgiving
15	November 29	Andrea Thatcher, Ph. D. 2015, Applied Mathematics CANCELLED Mathematical Modeler at BioFire Diagnostics, LLC https://www.linkedin.com/in/andrea-thatcher-090b9047

Spring 2021

The Professional Development Seminar will take place by Zoom during Spring semester, unless there are changes in the ASU requirements. Most sessions will be Monday 4-5pm. For joint events with other seminars, time changes will be posted in advance.

Week	Date	
1	01/11	Rosemary Renaut and Dieter Armbruster Introduction and Planning
2	01/18	Martin Luther King Day
3	01/25	Wolfgang Stefan, (Comp Math), 2008, Mayo Clinic Computational mathematicians at a research hospital
4	02/1	Sharon Stefan (Mathematics Education), Estrella Mountain Community College Residential Faculty https://directory.estrellamountain.edu/person/sharon.stefan Understanding the Community College Student Population and role of Professors
5	02/8	Iuliia Inozemtseva, Lecturer, School of Mathematical and Statistical Sciences Teaching math around the world : Russia, Ukraine, Hungary, China and US Experiences as an international instructor.
6	02/15	Jorly Chatouphonexay, Early Warning®, Cyber Threat Intelligence Analyst https://www.linkedin.com/in/jorlychatouphonexay/ A Day in the Life of a Cyber Incident Responder
7	02/22	Ana Kupresanin, ASU PhD Statistics 2008, https://people.llnl.gov/kupresanin1 Deputy Division Leader, Center for Applied Scientific Computing, Lawrence Livermore National Lab My Journey to a National Lab and A Perspective on Data Science
8	03/1	Brady Gilg, ASU PhD Applied Math., 2018, Caris Life Sciences https://www.linkedin.com/in/brady-gilg/
9	03/8	Qing Huang, ASU PhD Statistics, 2011 Data Scientist, American Family Insurance https://www.linkedin.com/in/qing-huang-b987b01a/ Professional Development in Data Science
10	03/15	Denny Denker, ASU PhD Applied Math., 2016, Start up www.brava.com A Math Graduate's Experience in Silicon Valley
11	03/22	Deb Agarwal, Senior Scientist, Lawrence Berkeley National Laboratory, Enabling Science Through Data Science at Berkeley Lab, https://dst.lbl.gov/~deba/ Joint with the RTG Seminar: 1:25pm
12	03/29	Angie Peace, ASU PhD Applied Math., 2014, Associate Professor, Texas Tech. http://www.math.ttu.edu/~anpeace/ Navigating the Early Years: My Path from PhD to Tenure
13	04/5	No presentation
14	04/12	Erica Rutter, ASU PhD Applied Math., 2016, Assistant Professor, UC Merced, https://www.ucmerced.edu/content/erica-rutter Lessons Learned from the Academic Job Search
15	04/19	Karen Devine, Sandia National Laboratories, A Career of Load Balancing https://cfwebprod.sandia.gov/cfdocs/CompResearch/templates/insert/profile.cfm?kddevin Zoom: https://zoom.us/join/zoom/register/tJIsf-tqj8iGdU8lsaqbPpiPOBNK70CGimB

Fall 2020

Week	Date	
1	08/24	Rosemary Renaut and Dieter Armbruster Introduction and Planning
2	08/31	
3	09/07	Labor Day Preparing for Career Day: with Career Services and Math Club: Wednesday evening 09/09 and 09/16 6:30pm
3	09/09	How to create your resume and elevator pitch (60-min presentation)
4	09/16	How to navigate the Handshake platform for a virtual career fair (30-min presentation)
5	09/21	Postdoc panel: Samantha Dahlberg, (Michigan State, 2016), https://math.la.asu.edu/~dahlberg/ Jason Yalim (ASU 2019): https://mathpost.asu.edu/~jyalim/assets/CV.pdf Steffen Eikenberry (USC, 2014, MD. 2016) https://math.asu.edu/node/3245
6	09/28	Academic Positions: how to apply and interviewing online, at meetings and in person. Current and Incoming School Directors. Professor Al Boggess and Prof. Donatella Danielli: https://www.math.purdue.edu/~dgarofal/
7	10/05	2pm Discussion on Summer internships-joint with RTG: Penny Wu, IMA Math to Industry Bootcamp https://www.ima.umn.edu/2019-2020/SW6.22-7.31.20 Bryce Barclay Data Science Summer Institute LLNL, https://data-science.llnl.gov/dssi Nikolay Krantsevich, Foundation Medicine in Boston. https://www.foundationmedicine.com/ Andrew Herren, Arize AI https://arize.com/
8	10/12	
9	10/19	Career Trajectories in Academia: Susanna Fishel, Marko Samara and Iuliia Inozemtseva
10	10/26	Nicole Infante, Associate Prof, Mathematics, (Math Ed) West Virginia University https://mathematics.wvu.edu/faculty-and-staff/faculty-directory/nicole-engelke-infante Mathematics and Country Roads: My non-linear journey
11	11/2	
12	11/9	Katherine Irimata, (Statistics) 2018 Mathematical Statistician, Centers for Disease Control and Prevention, National Center for Health Statistics (NCHS) in the Division of Research and Methodology Title: From "I never want to work in government" to becoming a federal employee
13	11/16	Youzuo Lin, (Comp Math), 2010, Staff Scientist, Los Alamos National Laboratory. https://sites.google.com/site/youzuolin044/ Demystifying a Career in a National Lab
14	11/23	
15	11/30	

Fall 2019 (Organized by Don Jones)

Week	Date	
1	08/28	Don Jones and Dieter Armbruster: Introduction and Planning
2	09/04	
3	09/11	Applying for a Job Part I Rhonda Olson (Career Fair) Panel - Lydia Tolman (BlueCross), Karen Garrity (Dorsey Consulting)
4	09/18	
5	09/25	Applying for a Job Part I Al Boggess Postdoc Panel
6	10/02	Karyn Sutton Senior Research Scientist, Institute for Disease Modeling
7	10/07	Summer Internships in the Mathematical Sciences, Part I: Hosted in conjunction with RTG Panelists: Chelsea Kennedy - Oak Ridge National Laboratory, Miandra Ellis - Amazon Camille Moyer - Graduate-level Research in Industrial Projects for Students (GRIPS), Berlin, Germany Elpiniki Nikolopoulou Health Services Advisory Group
8	10/16	Luis Gordillo, Utah State University Associate Professor
9	10/23	
10	10/30	Jennifer Cason Graduate College : Student Support Resources, Director

Spring 2019

Week	Date		
1	01/10	Louis DiBiasio	Miami University, Ohio
2	01/17		
3	01/24		
4	01/31	<i>Colloquium</i> 4:30-5:30	Jinfa Cai, University of Delaware
5	02/06	Google 2:30-4pm	NOTE THE DAY
6	02/14	<i>Colloquium</i> 4:30-5:30	Gail Wolkowicz, McMaster University
7	02/21	Block Grants, Mathematics Papers Presentation	Profs Armbruster and Renaut How to Write a Paper
8	02/28	<i>Colloquium</i>	Christiane Rousseau, University of Montreal
9	03/07	Spring Break	
10	03/14	Pi Day	5k Race 5:00pm
11	03/19	Jennifer Cason Graduate College Student Support Resources, Director	
TUESDAY	3:30-4:45	Peak Performance for Graduate Students in Mathematical and Statistical Sciences	
11	03/21	<i>Colloquium</i>	<i>Sutanu Sarkar</i> University of California San Diego
Canceled		Ana Kupresanin Deputy Division Leader, Lawrence Livermore National Laboratory	
13	04/04	Clint Mason	University of Utah, School of Medicine
14	04/11	Jodi Mead	Professor Boise State University
		Pursuing your passions in the academic world	
15	04/18	3:30-4:30 Robert Alvarez	Head of Data Science at Podium Education
Experience	Senior	Data Scientist: Metis, Data Scientist: Tamr Inc., Supply Chain Data Scientist: Intel	
		Presentation: Robert Alvarez	
Canceled		<i>Daniel Marthaler</i>	Data Scientist: Stitch Fix
16	04/25	<i>Colloquium</i>	Jingyi Chen, UBC

Fall 2018

Week	Date		
1	08/16	No Meeting	
2	08/23	Round Table Discussion	Graduate Summer School Experiences
3	08/30	John Stufken	Academic Careers
4	09/06	<i>Colloquium</i> 4:30-5:30	Anna Mazzucato, Penn State
5	09/13	Nura Patani Pizza 5pm	Segal Consulting Senior Actuarial Analyst, LinkedIn
6	09/20	Planning for Career Day 3:45-4:15	Rhonda Olson and Rosemary Renaut
6	09/20	<i>Colloquium</i> 4:30-5:30	Ruian Ke, Los Alamos National Laboratory
7	09/26	Chris Severs Prof. Dev. Seminar Wxlr 206. 3:45-5:00, A9.com Affiliated with Amazon	
	09/27	Chris is available to meet Coffee Break and <i>Career Day: Memorial Union - Ventana A (room 241) 1 to 5pm</i>	WXMLR A305 from 10:30-11:30am
8	10/04	Amylou Dueck and Todd DeWees	Mayo Clinic
Clinical Trials and Tribulations: True Tales of Being a Biostatistician at Mayo Clinic			
	10/05	Carrie Diaz Eaton 11am to 12:00pm Wxlr 206	Bates College
No one way is the only way: Liberal Arts Colleges, Motherhood, and Scholarship			
9	10/11	Victoria Horan Goliber	D-Wave Systems Inc. Research Scientist, LinkedIn, CV
		AWM Luncheon 11:30-1pm and Professional Development seminar 3:45-5pm	
10	10/18	Applying for a Faculty or Postdoc Position, Al Boggess, Dieter Armbruster Where, how, timing, referees, research, teaching, interviews?	
		Experiences: Asst Profs Dan Chen, Petar Jevtic and PDs: Evan Dummit, David Kaspar	
11	10/25	<i>Colloquium</i> 4:30-5:30	Patricio Herbst, University of Michigan
12	11/01	<i>Colloquium</i> 4:30-5:30	Volkmar Welker, University of Marburg/MSRI
13	11/08	Richard Archibald Presentation Slides	Oak Ridge National Lab
14	11/15	Craig Thalhauser 2:45-4:15 Wxlr 206 Presentation Slides <i>Colloquium</i> 4:30-5:30	Bristol Myers Squibb, Research Fellow, LinkedIn David Madigan, Columbia University
15	11/22	Thanksgiving	
16	11/29	Wrap up meeting - Feedback and planning	