Sofya Zaytseva

LIMITED TERM ASSISTANT PROFESSOR · UNIVERSITY OF GEORGIA

⊠ szaytseva@uga.edu

Employme	nt		
2019 - 2014-2019 2016 2013-2014 2013-2014 2012	Limited Term Assistant Professor, Department of Mathematics, University of Georgia Graduate Research Assistant, Applied Science Department, William & Mary DHS HS-STEM Intern, Department of Homeland Security, ANSER Graduate Teaching Assistant, Department of Mathematics, University of North Carolina at Wilmington Statistical Programming Intern, Biostudy Solutions Statistical Programming Intern, PharPoint Research Inc		
Education			
William & M	ary	Williamsburg, VA	
PhD Applied Science		Aug 2014 – Aug 2019	
University of North Carolina at Wilmington		Wilmington, NC	
MS Applied Mathematics		Aug 2013 – July 2014	
University of North Carolina at Wilmington		Wilmington, NC	
BS MATHEMAT		Aug 2009 – May 2013	
Teaching E	xperience		
Spring 2021	Arithmetic and Problem Solving (MATH 5001, 2 sections) , Instructor	University of Georgia	
Fall 2020	Calculus III (MATH 2500, 2 sections), Instructor	University of Georgia	
Spring 2020	Calculus II (MATH 2260, 1 section), Instructor	University of Georgia	
Fall 2019	Pre-Calculus (MATH 1113, 3 sections), Instructor	University of Georgia	
Spring 2018	Linear Algebra (1 section), Instructor	William & Mary	
Outreach &	Professional Development		
SERVICE AND	OUTREACH		
2020	COMAP , Triage Judge for the Mathematical Contest in Modeling (MCM)		
2018-2019	William & Mary, Math tutor for K-12 students		
2017-2018	William $\&$ Mary, Taught workshops on R and Matlab for the <code>EXTREEMS</code> <code>QED</code> <code>Program</code> for undergraduate research		
Developmei	ΝΤ		
2020	Project NeXT (New Experiences in Teaching), Participant		
2020	University of Georgia , Part of "Designing Authentic Learning Experiences in Digital Environments" Faculty Interest Group		
2019 -	University of Georgia, Part of M.A.L.T (math active learning team) faculty group		
2019	University of Georgia, Completed "Diversity at UGA: Beyond the Number" workshop		
2019	IPAM (UCLA), IPAM Collaborative Workshop for Women in Mathematical Biology		
2018	Virginia Tech Richmond Center , Three-day workshop "Mapping with Drones" on federal sUAS regulations, sUAS platforms, sensors, image processing software techniques an sUAS project workflows.		
2017	Institute for Theory and Practice of International Relations, William & Mary, State Department's Diplomacy Lab		

Awards, Fellowships, & Grants _____

2020	UGA Provost's Affordable Course Materials Grant for Calculus II, University of Georgia Summer Research for Women in Mathematics, MSRI	\$5000
2019	Graduate Studies Advisory Board Award for Excellence in Scholarship in the Natural and Computational Sciences, William $\&$ $Mary$	\$ 1,000
	Travel Award, Joint Mathematics Meeting	\$ 500
2017	Award for Excellence in the Natural Computational Sciences, $William\ \&\ Mary$	\$ 500
B I I I I I		

Publications _

- Ciftci, S, Robbins M., Zaytseva S. 2020. Devotion at Sub-national Level: Ramadan, Night-time Lights, and Religiosity in Egyptian Governorates. International Journal Of Public Opinion Research
- Blower, S., Sindi, S., Agusto, F., Goldberg, A., Ortega, O., Ponce, J., Zaytseva, S. 2020. How do interventions impact malaria dynamics between neighboring countries? A case study with Botswana and Zimbabwe. In Using Mathematics to Understand Biological Complexity, Springer
- Zaytseva, S, Shaw L.B., Shi, J. 2019. Model of pattern formation in marsh ecosystems with nonlocal interactions. Journal of mathematical biology, 1-32.
- Zaytseva, S, Shaw L.B., Lipcius R., Shi, J., Kirwan, M.L. 2019. Pattern formation in marsh ecosystems modeled through the interaction of marsh vegetation, mussels and sediment. (submitted)
- Zaytseva, S, Shaw L.B., Lipcius R. 2020. Analysis of oyster reef patterns in remotely sensed data. (in preparation)
- Black, K., Adams, M., Basheer, A., Kazanci, C., Patten B., Whipple S., Zaytseva S. 2020. A Continuous Model Of Behavioural Phenotype: An Example Of Interaction Between The Butterfly Pieris brasicae And Trichogramma Wasps. (in preparation)

Presentations _ INVITED TALKS

- January 2021. Investigation of Pattern Formation in Intertidal Oyster Reefs. Invited talk in the AMS Special Session on Recent Advances in Ecological Modeling, 2021 Joint Mathematical Meeting
- August 2020. Investigation of Pattern Formation in Intertidal Oyster Reefs. Invited talk as part of the mini-symposium on "Patterns and Dynamics in Spatially Explicit Ecological Systems" at the SIAM Conference on the Mathematics of Planet Earth
- January 2019. Model of pattern formation in marsh ecosystems with nonlocal interactions. Invited talk in the AMS Special Session on Mathematical Investigations of Spatial Ecology and Epidemiology.
- March 2018. Pattern formation in Marine Ecology. Invited talk: Department of Mathematics, Virginia Commonwealth University, Richmond, Virginia
- July 2016. Using a System of Reaction Diffusion Equations with Nonlocal Interactions to Model Pattern Formation in the York River Tidal Marshes. Invited talk in the special session on "Pattern Formation and Recognition in Structured Information and Biological Systems with External Forcing.", 11th American Institute of Mathematical Sciences (AIMS) Conference, Orlando, Florida

SELECT CONTRIBUTED PRESENTATIONS

- Zaytseva, S. 2019. "Imagery Analysis to Investigate Oyster Reef Pattern Formation", 2019 SIAM Conference on Applications of Dynamical Systems, Snowbird, Utah
- Zaytseva, S. 2017. "Pattern formation in marsh ecosystem", 2017 SIAM Conference on Applications of Dynamical Systems, Snowbird.Utah
- Zaytseva, S. 2017. "Pattern formation in marsh ecosystems modeled through the interaction of marsh vegetation, mussels and sediment.", 16th Annual Graduate Research Symposium, College of William & Mary
- Zaytseva, S. 2017. "Spatial patterning in the York River tidal marshes through the interaction of cordgrass, mussels and sediment", BAMM! Biology and Medicine through Mathematics Conference, Richmond, Virginia