

# Ursula Trigos-Raczkowski

PhD in Applied Mathematics from the University of Michigan, Ann Arbor

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Education	<b>University of Michigan, Ann Arbor</b> Ph.D., Applied Mathematics. M.S., Applied Mathematics.  <b>California State University Bakersfield</b> B.S., Applied Mathematics. Minor, Chemistry.	Email: utrigos@gmail.com
Dissertation	Coexistence through Life-History Variation: revisited in tractable models with explicit patch aging and/or size-structure.	
Employment	<b>University of Louisiana at Lafayette</b> Post Doctoral Fellow, July 2024 - Present (Supervisor Dr. Azmy S. Ackleh) <b>Integrative Biology, University of Texas at Austin</b> Post Doctoral Fellow, July 2023 - July 2024 (Supervisor Dr. Annette Ostling) Research Affiliate – Visiting Researcher/Scholar, July 2022 - July 2023 (Supervisor Dr. Annette Ostling) <b>Mathematics, University of Michigan, Ann Arbor</b> Graduate Student Instructor & Graduate Student, July 2016 - July 2022 (Supervisor Dr. Hanna Bennett & Dr. Annette Ostling & Dr. Trachette Jackson) <b>Mathematics, California State University Bakersfield</b> Teaching Assistant, Math 281 (Tutoring in Precalculus and Calculus), Jan-May 2016 (Supervisor Dr. Charles Lam)	
Teaching	<b>Mathematics, University of Michigan, Ann Arbor</b> Graduate Student Instructor of Record (GSI) GSI, Calculus I, one section (4 credits), FA 2021, WN 2021, FA 2019, WN 2017 GSI, Data, Functions and Graphs (a precalculus course), one section (4 credits), FA 2020, FA 2016  <b>Mathematics, California State University Bakersfield</b> Teaching Assistant, Math 281 (Tutoring in Precalculus and Calculus), 2014-2016 Teaching Assistant, Math 204 (Calculus <i>IV</i> ), 2013-2014 and 2015-2016 Student Assistant, proctored exams, 2012.	

## Publications

*Disturbance-Generated Competitive Coexistence (In progress)* [BioRxiv link](#)  
*A Spatially-Explicit Stochastic Model for the Gulf Coast Ticks (In Progress)*

Talks     *Coexistence via life history variation revisited in models with explicit patch aging*  
              **American Institute of Mathematical Sciences, AIMS 2023**  
              in Wilmington, North Carolina (July 2023)  
              **Joint Mathematics Meeting, JMM 2023**  
              in Boston, Massachusetts (January 2023)  
              **International Conference on Mathematical Modeling and**  
              **Analysis of Populations in Biological Systems, ICMA-VIII 2022**  
              in Lafayette, Louisiana (October 2022)  
              **EcoLunch Ecology Seminar, UT Austin 2022**  
              in Austin, Texas (October 2022)  
              **Ecological Society of America, ESA 2022**  
              in Montreal, Canada (August 2022)

Awards and     **Rackham Merit Fellow (RMF, RSA) (2018)**  
 Fellowships     **California Scholarship Federation (2008-2011)**

Languages     English (native), Spanish (fluent), Polish (advanced)  
 and Skills     Matlab,  $\text{\LaTeX}$ , Mathematica, SLURM HPC Cluster

## References

Dr. Azmy S. Ackleh Mathematics University of Louisiana at Lafayette ackleh@louisiana.edu, +1 (337) 482-6986	Dr. Annette Ostling Oden Institute Core Faculty University of Texas, Austin annette.ostling@austin.utexas.edu, +1 (512) 471-3312
Dr. Trachette Jackson Mathematics University of Michigan, Ann Arbor tjacks@umich.edu, +1 (734) 764-8537	Dr. Hanna Bennett Mathematics University of Michigan, Ann Arbor hbennett@umich.edu, +1 (734) 764-0335