Anna K. Miller · Curriculum Vitae

Technical Skills ____

Most experience:R, Matlab, JavaSome experience:Maple, Mathematica, XPP/XPPAUT, HTML, QuPath

Research Interests

Mathematical Biology, Mathematical Oncology, Tumor Microenvironment, Drug Resistance, Eco-evolutionary Dynamics, Evolutionary Therapies, Human Papillomavirus, Cell Biology.

Moffitt Cancer Center, Tampa, FL □ (704) 905-7101 | annakmil@gmail.com | annakmil.github.io | annakmil

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Research Positions

Applied Postdoctoral Fellow

Integrated Mathematical Oncology Department, Moffitt Cancer Center, Tampa, FL

• Modeling environment-mediated drug resistance using hybrid agent-based models.

Education

Ph.D. in Mathematics May 2018 University of Utah, Salt Lake City . • Thesis Title: Mathematical Modeling of Epithelial Cell Division: Evaluating the Effects of Human Papillomavirus Infection . • Advisor: Frederick R. Adler Aug. 2017 M.S. in Mathematics Aug. 2017 University of Utah, Salt Lake City May 2010 B.S. in Mathematics May 2010 Winor in Hispanic Studies May 2010 University of North Carolina, Chapel Hill May 2010

Teaching/Mentoring Experience

Society for Mathematical Biology

Mentorship Program

• Served as a mentor at the annual meeting

Moffitt Cancer Center

Student Mentor

• Mentored a student that participated in the High School Internship Program in Mathematical Oncology (HIP-IMO)

University of Utah

Course Instructor

- Math 1050: College Algebra (Spring 2013, Fall 2015, Spring 2016, Fall 2017)
- Math 1030: Introduction to Quantitative Reasoning (Fall 2012)
- Math 1010: Intermediate Algebra (Fall 2011)

Lab Instructor

- Math 4600: Mathematics in Physiology and Medicine (Spring 2015)
- Math 2250: Differential Equations and Linear Algebra (Spring 2012)

Teaching Assistant

- Math 5120: Mathematical Biology II (Spring 2014)
- Math 5110: Mathematical Biology I (Fall 2013, Fall 2014)
- Math Help Center Tutor (Spring 2012, Fall 2012)

Summer 2019-2021

Summer 2018-2019

Jan. 2018 - Present

Publications

S. Jerez, E. Pliego, F. J. Solis, **A. K. Miller**. Antigen receptor therapy in bone metastasis via optimal control for different human life stages. *Journal of Mathematical Biology*. (2021).

N. Huntly, A. R. Freischel, **A. K. Miller**, M. C. Lloyd, D. Basanta, and J. S. Brown. Coexistence of "Cream Skimmer" and "Crumb Picker" Phenotypes in Nature and in Cancer. *Frontiers in Ecology and Evolution*. (2021).

A. K. Miller, J. S. Brown, H. Enderling, D. Basanta, and C. J. Whelan. The Evolutionary Ecology of Dormancy in Nature and in Cancer. *Frontiers in Ecology and Evolution*. (2021).

A. K. Miller, J. S. Brown, D. Basanta, and N. Huntly. What Is the Storage Effect, Why Should It Occur in Cancers, and How Can It Inform Cancer Therapy? *Cancer Control*. (2020).

R. R. Bravo, E. Baratchart, J. West, R. O. Schenck, **A. K. Miller**, J. Gallaher, C. D. Gatenbee, D. Basanta, M. Robertson-Tessi, and A. R. Anderson. Hybrid Automata Library: A flexible platform for hybrid modeling with real-time visualization. *PLoS computational biology.* (2020).

A. K. Miller, K. Munger, and F. R. Adler. A Mathematical Model of Cell Cycle Dysregulation Due to Human Papillomavirus Infection. *Bulletin of Mathematical Biology*. (2017).

P-I Ku*, **A. K. Miller***, J. Ballew, V. Sandrin, F. R. Adler, and S. Saffarian. Identification of pauses during formation of HIV-1 Virus like particles. *Biophysical Journal*. (2013). *Equal contribution.

Conferences AACR Special Conference: Evolutionary Dynamics in Carcinogenesis and Response to Mar. 2022 Therapy Tampa, FL Poster: Dissecting the role of the bone ecosystem and intrinsic resistance in the evolution of refractory multiple myeloma Pfizer ECD QSP Group Meeting Oct. 2021 Virtual Invited Talk: The evolution of multiple myeloma in the bone microenvironment: from bone homeostasis to environment mediated drug resistance CSBC/PS-ON/BD-STEP Junior Investigator Meeting Aug. 2021 Virtual Contributed Talk: Examining environment-mediated drug resistance in multiple myeloma with a hybrid agent based model **PS-ON Annual Investigators Meeting** Aug. 2021 Virtual Poster: A biology-driven computational model of the interplay between the bone microenvironment and treatment response in multiple myeloma; Poster Prize Annual Meeting of the Society for Mathematical Biology June 2021 Virtual Contributed Talk: An integrated computational model of multiple myeloma-bone dynamics under treatment Organizer: Minisymposium on Predicting ecological dynamics in fluctuating environments **Moffitt Virtual Scientific Symposium** Apr. 2021 Virtual Poster: A spatial model of the multiple myeloma-bone vicious cycle and the response to standard of care treatments **PS-ON Annual Investigators Meeting** Sept. 2020 Virtual Poster video: An integrated biological and computational approach to model the dynamics of the bone-multiple myeloma vicious cycle; Poster Prize CSBC/PS-ON/BD-STEP Junior Investigator Meeting Aug. 2020 Virtual Poster video: Agent based modeling of the bone ecosystem: creating a biology-driven platform to explore microenvironmental selection in multiple myeloma Annual Meeting of the Society for Mathematical Biology Aug. 2020 Virtual

Contributed Talk: Modeling the spatiotemporal dynamics of the vicious cycle in multiple myeloma

Moffitt Virtual Scientific Symposium	May 2020
Virtual	
Contributed Talk: Agent based modeling of the bone ecosystem: creating a biology-driven platform to explore	
Therefore in the selection in multiple myelonia, or at presentation prize	F 1 0000
Duke University Mathematical Biology Seminar	Feb. 2020
Durnally, NC	mental
selection in multiple myeloma	mental
Concor Piology and Evolution (CPE) Symposium	Oct 2010
Tampa El	000.2019
Poster Highlight: An Agent Based Model of the Bone Microenvironment in Multiple Myeloma	
Annual Meeting of the Society for Mathematical Biology	July 2019
Montreal Canada	July 2015
<i>Contributed Talk</i> : Towards a Multiscale Model of the Bone Microenvironment in Multiple Myeloma	
Moffitt Scientific Symposium	May 2019
Tampa, FL	
Poster: Towards a Multiscale Model of the Bone Microenvironment in Multiple Myeloma	
OSP Summit	Apr. 2019
Boston, MA	
Poster and Lightning Talk: Towards a Multiscale Model of the Bone Microenvironment in Multiple Myeloma; First Place	Poster
Prize	
Cancer Evolution & Ecology: Theory and Clinical Practice	May 2018
St. Petersburg, FL	-
IMAG Futures Meeting-Moving Forward with the Multiscale Modeling Consortium	Mar. 2018
Bethesda, MD	
DeCAPT: Data Science for the Health Sciences	July 2017
DeCART: Data Science for the Health Sciences	July 2017
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Workshops	
Quantitative Systems Pharmacology Approaches to Problems in the Pharmaceutical Industry The Fields Institute, Virtual	Aug. 2021
Workshop on Computational Modelling of Cancer Biology and Treatments Centre de Recherches Mathématiques, Virtual	July 2021
IMO Workshop 9: Tumor Board EvolutionIMoffitt Cancer Center, Tampa, FL	Nov. 2019
IMO Workshop 8: Evolutionary Therapy Moffitt Cancer Center, Tampa, FL	Oct. 2018
Joint MBI-NIMBioS-CAMBAM Summer Graduate Program: Connecting Biological Data with Mathematical Models Knoxville, TN	lune 2017
CMO Workshop: Viral Dynamics and Cancer	Aug. 2015
IMO Workshop IV: Viruses in Cancer Moffitt Cancer Center, Tampa, FL	Nov. 2014
Poster: A quantitative comparison of how high-risk and low-risk human papillomavirus manipulate the epithelial cell cyc	cle

Awards and Scholarships_____

Moffitt Cancer Center

• SMB Landahl Travel Grant, 2019

University of Utah

- Graduate Research Fellowship: **2016-2017**
- Graduate Student Travel Assistance Award: 2016
- SMB Landahl Travel Grant: 2014, 2016
- Teaching Assistantship: 2011-2013, 2015-2016
- NSF Research Training Group (RTG) Grant: Summer 2012, Summer 2013
- NSF Research Training Group (RTG) Fellowship: 2010-2011, 2013-2015

University of North Carolina, Chapel Hill

• Pi Mu Epsilon, Spring 2009

Professional Service _____

Peer Reviewer

Frontiers in Ecology and Evolution, Journal of Theoretical Biology, Philosophical Transactions of the Royal Society B, Royal Society Open Science

Other Service

Moffitt Cancer Center

 Chair of the Distinguished Lecturer Symposium Committee for the Moffitt Postdoctoral Association Member of Moffitt Choir 	2019 - 2020 2019, 2021
University of Utah	
Webmaster for the Mathematical Biology Program	2014 - 2017
Secretary/Webmaster for the AWM student chapter	2013 - 2016
Organizer for Math Biology t-shirt contest	Spring 2015
Organizer for AWM/Math Department t-shirt contest	Fall 2014

Science Advocacy_

Moffitt Day

Tallahassee, FL

• Discuss Moffitt's research and mission with Florida Senate and House Representatives.

Community Outreach.

Brain Expansions Scholastic Training (BEST) Summer Academy

Virtual

• A one week program in partnership with Moffitt Healthy Kidz program to teach high school students how to read and present a scientific article.

Light the Night

Tampa, FL

• An event to raise funds in support of The Leukemia & Lymphoma Society. Volunteered at Moffitt's Women in Science table to share my research on multiple myeloma to event participants.

Technology for Teens Workshop

University of Utah

"What is Math?" Day

University of Utah

• Helped organize an event sponsored by the AWM and the University of Utah Mathematics Department to introduce high school and undergraduate students to various topics in mathematics.

Utah FIRST Lego League

Salt Lake City, UT

• A competition where middle-school students use LEGO-based robots that they build and program beforehand to complete a series of tasks based on real-world issues. Volunteered at the qualifying tournament and championship as robot design judge, table setter, practice table manager, and scorekeeper.

Professional Affiliations

Current Memberships

- American Association for Cancer Research (AACR)
- Society for Mathematical Biology (SMB)

Past Memberships

- American Mathematical Society (AMS)
- Association for Women in Mathematics (AWM)
- Cancer and Bone Society (CABS)
- Society for Industrial and Applied Mathematics (SIAM)

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Nov. 2019

June 2021

Feb. 2015

2012-2013

2011-2015