

Daniel Tamor Liu Citron

IHME

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EDUCATION AND TRAINING

University of Washington

Postdoctoral Researcher

Advisor: David L. Smith

Seattle, WA

2017 – Present

Cornell University

Ph.D. Theoretical Physics; Experimental Physics Minor

M.S. Physics

Committee: Christopher R. Myers, Chair; Paul Ginsparg; Paul McEuen

Ithaca, NY

2011 – Present

2014

University of Chicago

B.A. Physics with Honors

Senior Honors Thesis: “Simulating Jamming in Granular Materials”

Chicago, IL

2009

PUBLICATIONS

Daniel T. Citron, Carlos A. Guerra, Andrew J. Dolgert, Sean L. Wu, John M. Henry, Héctor M. Sánchez C., & David L. Smith. “Choosing a Host Movement Model for Metapopulation Dynamics of Infectious Diseases.” *In preparation*

Sean L. Wu, **Daniel T. Citron**, Andrew J. Dolgert, John M. Henry, Héctor M. Sánchez C., & David L. Smith. “A simulation platform for heterogeneous metapopulation transmission dynamics of mosquito-borne pathogens.” *In preparation*

Daniel T. Citron, Carlos A. Guerra, Sean L. Wu, Héctor M. Sánchez C., John M. Henry, Guillermo A. García, Robert C. Reiner, & David L. Smith. “Propagating spatial uncertainty through mechanistic models for robust policy” *In preparation*

Sean L. Wu, Héctor M. Sánchez C., John M. Henry, Qian Zhang, **Daniel T. Citron**, Biyanka Liang, Kelly Compton, Amit Verma, Derek A. Cummings, Thomas W. Scott, Anne Wilson, Steven Lindsay, Catherine Moyes, Penny Hancock, Tanya Russell, Thomas R. Burkot, John Marshall, Samson Kiware, Robert C. Reiner Jr., & David L. Smith. “Vector bionomics and vectorial capacity as emergent properties of mosquito behaviors and ecology.” *In preparation*

Carlos A. Guerra, Su Yun Kang, **Daniel T. Citron**, Dianna EB Hergott, Megan Perry, Jordan Smith, Wonder P. Phiri, José O. Osá Nfumu, Jeremiás N. Mba Eyono, Katherine E. Battle, Harry S. Gibson, Guillermo A. García, & David L. Smith. “Human mobility patterns and malaria importation on Bioko Island.” *Nature communications* 10, no. 1 (2019): 2332.

Daniel T. Citron and Samuel F. Way. “Network assembly of scientific communities of varying size and specificity.” *Journal of Informetrics* 12, no. 1 (2018): 181-190.

Daniel T. Citron and Paul Ginsparg. “Patterns of Text Reuse in a Scientific Corpus.” *PNAS* 112, no. 1 (2015): 25-30. DOI:10.1073/pnas.1415135111

Mark L. Rivers, **Daniel T. Citron**, and Yanbin Wang. “Recent developments in computed tomography at GSECARS.” In *Developments in X-Ray Tomography VII*, vol. 7804, p. 780409. International Society for Optics and Photonics, 2010.

Xiang Cheng, German Varas, **Daniel T. Citron**, Heinrich M. Jaeger, and Sidney R. Nagel.
 “Collective behavior in a granular jet: Emergence of a liquid with zero surface tension.” *Physical review letters* 99, no. 18 (2007): 188001.

AWARDS & FELLOWSHIPS

NSF Graduate Research Fellowship (Cornell University) 2012

CONFERENCES AND WORKSHOPS

Metapopulation Models of Infectious Disease Dynamics are Sensitive to Underlying Host Movement

Epidemics December 3-6, 2019
 Contributed Presentation

Quantifying malaria acquired during travel and its role in malaria elimination on Bioko Island

ASTMH November 20-24, 2019
 Poster Presentation

Sensitivity of Metapopulation Models of Infectious Disease Dynamics to Underlying Host Mobility Networks

NetSci May 27-31, 2019
 Poster Presentation

Applied Simulation Modeling for Interrupting Malaria Transmission on Bioko Island

7th Annual Disease Modeling Symposium April 15-17, 2019
 Invited Presentation

Agent-Based Modeling for Malaria Policy

African Health Economics and Policy Association Conference March 11-14, 2019
 Invited Presentation

Network Analysis of Mosquito Habitats for Controlling Vector-Borne Pathogens

NetSci 2018 June 11-15, 2018
 Poster Presentation

Contact Network Heterogeneity and Persistence of Endemic Disease

NetSci 2017 June 19-23, 2017
 Contributed Presentation

Network Assembly in Scientific Collaboration Networks

Northwestern U.
 International Conference on Computational Social Science June 22-26, 2016
 Poster Presentation

Network Analysis of ArXiv

Santa Fe Institute
 SFI Complex Systems Summer School 2015 July 3, 2015
 Contributed Presentation

Moment Closure Analysis of SIRS Disease Model on Heterogeneous Networks

APS March Meeting 2015 March 2-6, 2015
 Contributed Presentation

Accounting for Fluctuations in Stochastic SIRS Model on Networks

U. of Pittsburgh
 International Workshop on Advances in Discrete Networks December 12-14, 2014
 Poster Presentation

TEACHING

Instructor

Physics GRE Preparation Short Course

Cornell University
Spring 2013, 2014, 2015, 2016

Teaching Assistant

Electricity and Magnetism (honors sequence)

Spring 2016

Mechanics and Special Relativity (honors sequence)

Fall 2014, 2015

Introduction to Electricity and Magnetism

Spring 2012

Mechanics and Heat

Fall 2011

OUTREACH AND SERVICE

Pacific Science Center

Science Communication Fellow

Seattle, WA
Spring 2018 – Present

Destination Imagination

Board Member and Volunteer

Central New York
Spring 2015 – Summer 2017

Graduate & Professional Students Assembly

Chair, Faculty Awards Committee

Cornell University
Fall 2014 – Fall 2015

Physics Field Representative

Fall 2013 – Spring 2016

Cornell Center for Materials Research Outreach

Volunteer

Cornell University
Summer 2014 – Summer 2017

Physics Graduate Society

Treasurer, Event Coordinator

Cornell University
Summer 2012 – Spring 2013

University of Chicago Scavenger Hunt

Judge (event organizer)

University of Chicago
2009 – 2015