Daniel Tamor Liu Citron

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EDUCATION AND TRAINING

University of Washington — Seattle, WA
Postdoctoral Researcher — 2017 – Present
Advisor: David L. Smith

Cornell University — Ithaca, NY
Ph.D. Theoretical Physics; Experimental Physics Minor — 2011 – Present
M.S. Physics — 2014
Committee: Christopher R. Myers, Chair; Paul Ginsparg; Paul McEuen

University of Chicago — Chicago, IL
B.A. Physics with Honors — 2009
Senior Honors Thesis: "Simulating Jamming in Granular Materials"

PUBLICATIONS

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 a simulation model of malaria transmission on Bioko Island." *In preparation*

Sean L. Wu, Héctor M. Sánchez C., John M. Henry, Qian Zhang, **Daniel T. Citron**, Biyonka 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

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 Cornell University
Physics GRE Preparation Short Course Spring 2013, 2014, 2015, 2016

Teaching Assistant Cornell University
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 — Seattle, WA
Science Communication Fellow — Spring 2018 – Present

Destination Imagination — Central New York
Board Member and Volunteer — Spring 2015 – Summer 2017

Graduate & Professional Students Assembly — Cornell University
Chair, Faculty Awards Committee — Fall 2014 – Fall 2015
Physics Field Representative — Fall 2013 – Spring 2016

Cornell Center for Materials Research Outreach — Cornell University
Volunteer — Summer 2014 – Summer 2017

Physics Graduate Society — Cornell University
Treasurer, Event Coordinator — Summer 2012 – Spring 2013

University of Chicago Scavenger Hunt — University of Chicago
Judge (event organizer) — 2009 – 2015