

Philipp Ross

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Education

University of Chicago, Chicago, IL USA (Anticipated, 2021)
Doctor of Philosophy: Genetics, Genomics, and Systems Biology
Cumulative GPA to Date: 3.55

Pennsylvania State University, State College, PA USA (Anticipated, 2018)
Graduate Certificate: Applied Bioinformatics
Cumulative GPA to Date: 3.6/4.0

Binghamton University, Binghamton, NY USA (Spring 2013)
Bachelors of Science: Bioengineering
Major GPA: 3.65/4.0 Cumulative GPA: 3.51/4.0

Research Experience

Computational Biology, Pennsylvania State University (Fall 2013 - Fall 2016)

Advisor: Manuel Llinás

Contributed to several publications looking at various aspects of pre and post-transcriptional regulation in the deadliest human infecting species of the parasite that causes malaria, *Plasmodium falciparum*.

Computational Simulation, Binghamton University (Fall 2012 - Spring 2013)

Advisor: Hiroki Sayama

Designed a computational simulation and graphical user interface looking at the socioeconomic consequences of the widespread adoption of 3D printers implemented in Mathematica and Python.

Publications

Joana Mendonca Santos, **Philipp Ross***, Gabrielle Josling*, Preeti Joshi, Lindsey Orchard, Tracey Campbell, Ariel Schieler, Ileana M. Cristea, Manuel Llinás (2017) "*Red Blood Cell Invasion by the Malaria Parasite Is Coordinated by the PfAP2-I Transcription Factor*" Cell Host & Microbe 2017 14 June. doi: 10.1016/j.chom.2017.05.006

Eshar S, Altenhofen L, Rabner A, **Ross P**, Fastman Y, Mandel-Gutfreund Y, Karni R, Llinás M, Dzikowski R. (2015) "*PfSR1 controls alternative splicing and steady state RNA levels in Plasmodium falciparum through preferential recognition of specific RNA motifs.*" Mol Microbiol. 2015 Mar 25. doi: 10.1111/mmi.13007

Amber Ferger, Wai Fai Lau, Philipp Ross, Wyman Zhao, Hiroki Sayama, and Steen Rasmussen, *Impact of personal fabrication technology on social structure and wealth distribution: An agent-based simulation study*, *Advances in Artificial Life: Proceedings of the Twelfth European*

Conference on the Synthesis and Simulation of Living Systems (ECAL 2013), Pietro Liò, Orazio Miglino, Giuseppe Nicosia, Stefano Nolfi and Mario Pavone, eds., MIT Press, pp.521-522.
<http://mitpress.mit.edu/sites/default/files/titles/content/ecal13/978-0-262-31709-2-ch075.pdf>

Chappell L, **Ross P**, Altenhofen L, Böehme U, Otto T, Rayner J, Newbold C, Matt Berriman, Llinás M "*Redefining the transcriptome of the human malaria parasite Plasmodium falciparum*" In **Preparation**

Outreach

Science Connections Volunteer, Museum of Science and Industry (March 2017 - Present)
Resident Scientist, Skype a Scientist (<http://www.skypeascientist.com>)
Science Judge, 2017 Spring Symposium & Student Research Conference in STEM

Honors

Graduated Cum Laude, Binghamton University
Inducted to Tau Beta Pi Engineering Honor Society, Binghamton University
Deans List Recognition, Binghamton University (Fall 2008 - 2011, 2012 & Spring 2009, 2010, 2013)
SMART Grant Recipient, Binghamton University (Fall 2009)

Leadership

President & Founder, Entrepreneurship Club, Binghamton University
President, Binghamton Bioengineering Club, Binghamton University
Advisor, Bioengineering Student Advisory Committee, Binghamton University

Other

Languages

German, Intermediate
Spanish, Basic Knowledge

Certifications

Certified Personal Trainer, American Council of Exercise (ACE)
Certified First Aid, CPR, and AED, American Heart Association
Certified Wilderness First Aid, Stonehearth Open Learning Opportunities (SOLO)