

Adam Robert Pah

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Research Interests

Adoption and propagation of ideas across social networks, effect of missing information on network dynamics, computational modelling of human behavior, and network formation.

Education

Doctor of Philosophy in Interdisciplinary Biological Sciences
Northwestern University; Evanston, Illinois.
2008–2013

Bachelors of Science in Molecular Biosciences and Biotechnology, *Summa Cum Laude*
Arizona State University; Tempe, Arizona.
2004–2008

Positions

Postdoctoral Fellow 2013–Present
Dept of Chemical and Biological Engineering at Northwestern University; Evanston, IL.

Postdoctoral Fellow 2013–2014
Dept of General Internal Medicine at Northwestern University; Chicago, IL.

Data Scientist 2013
TTX Corporation; Chicago, IL

Data Scientist 2012
Datascope Analytics; Chicago, IL

Visiting Scholar 2011
The Donnelly Centre at University of Toronto; Toronto, ON, CA.

Student Researcher 2004–2008
The Biodesign Institute at Arizona State University; Tempe, Arizona.

Publications

Kho AN, Cashy JP, Jackson KL, Pah AR, Goel S, Boehnke J, Humphries JE, Kominers SD, Hota BN, Sims SA, Malin BA, Meltzer D, Kaleba E, Jones R, and Galanter WL (*Submitted*). Distributed Common Identity for Integration of Regional Health Data (DCIFIRHD).

Pah AR, Rasmussen-Torvik LJ, Goel S, Greenland P, and Kho AN (2015). Big Data: What is it and what does it mean for cardiovascular research and prevention policy. *Current Cardiovascular Risk Reports* 9(1), 1-9.

Weiss CH, Poncela-Casasnovas J, Glaser JJ, Pah AR, Persell SD, Baker, DW, Wunderink, RG, and Amaral, LAN. (2014). Adoption of an innovation within a homogeneous population of professionals is consistent with a persuasion process. *Physical Review X* 4, 041008.

Pah AR, Guimera R, Mustoe AM, and Amaral LAN. (2013). Use of a global metabolic network to curate organismal metabolic networks. *Scientific Reports*, 3: 1695.

Daskalova SM, Pah AR, Baluch DP, and Lopez LC. (2009). *Arabidopsis thaliana* putative sialyl-transferase resides in plant Golgi but lacks the ability to transfer sialic acid. *Plant Biology*, 11(3): 284–299.

Talks

Jackson, K, Pah, AR, Pacheco, J, and Kho, AN (2015). Effect of Care Fragmentation on Performance of Asthma Phenotype Algorithm Using Electronic Health Records. *American Medical Informatics Association - Clinical Research Informatics 2015*, San Francisco, CA.

Behrens, J, Pah, AR, and Kho, AN (2015). Quantifying Geo-imputation Error: Using Gaussian Geostatistical Simulations (GGS) to Disaggregate Zip Code Data and Estimate Positional Error. *American Medical Informatics Association - Clinical Research Informatics 2015*, San Francisco, CA.

Pah, AR, Behrens, J, Goel, S, and Kho, AN (2014). Unzipping zip codes: A methodology to assign de-identified health data to smaller geographic localities. *American Medical Informatics Association - Clinical Research Informatics 2014*, San Francisco, CA.

Pah, AR, Mustoe, AM, Guimera, R, and Amaral, LAN. (2012). *Res Potentia* Networks: A route to understanding function and evolution of cellular networks. *NetSci 2012*, Evanston, IL.

Posters

Pah, AR, Mustoe, AM, Guimera, R, and Amaral, LAN. (2013). *Res Potentia* Networks: A route to understanding function and evolution of cellular networks. *q-Bio Winter 2013*, Honolulu, HI.

Pah, AR and Amaral, LAN. (2011). Debugging Biology: Detecting Evolutionary Changes in Metabolic Networks. *2011 Complexity Conference*, Evanston, IL.

Pah, AR, Guimerá, R, Mustoe, A, and Amaral, LAN. (2010). Evolutionary Dynamics of Metabolic Networks. *Dynamics Days: International Conference on Chaos and Nonlinear Dynamics*, Evanston, IL.

Burk, DR, Pah, AR, Lopez, LC, and Daskalova, SM. (2008). Anti-inflammatory and Antioxidant Activities of *C. Vulgare* L. *In Vitro Cellular and Developmental Biology*, Tucson, AZ.

Honors and Awards

Northwestern Graduate School (TGS) Travel Grant	2012
IBiS Departmental Travel Grant	2012
Chicago Biomedical Consortium Scholar	2011-2012
Chicago Biomedical Consortium	
Northwestern Biotechnology Training Program Trainee	2009-2011
Northwestern University, NIH-funded	
President's Scholarship	2004–2008
Arizona State University	
Arizona State University Deans List	2004–2008

Teaching

Programming Bootcamp
Sponsored as a part of the Northwestern Big Data Initiative
Fall 2014, Spring 2015

Molecular Biology, BIOL_SCI 309
Fall 2010
Average Review Score: 5.035 (out of 6.0)

Genetics and Evolutionary Biology, BIOL_SCI 210
Fall 2009
Average Review Score: 5.000 (out of 6.0)

Mentored Students

Undergraduate:

- Andrew Jennings (2014)
Project: Longitudinal analysis of shooting incidents at schools in the United States
- Jaesuk Park (2014)
Project: Geographic differences in hospitalization of asthma patients
Presented at: Chicago Area Undergraduate Research Symposium

High School:

- Sarah Otis (2014)
Project: Socioeconomic associations to differences in asthma hospitalization rates