

5/10/2018

Curriculum Vitae

Doron J. Shahar

Department of Mathematics

University of Arizona

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Citizenship

United States

Education

University of Arizona (Undergraduate), 2009-2013

B.S. in Mathematics, Physics minor, Major GPA:4.0, Cumulative GPA: 3.97

University of Arizona (Graduate), 2013-2018

Ph.D. in Mathematics, Statistics minor

Awards

University of Arizona

Recipient of the Wildcat Excellence Award, 2009-2012

Recipient of the College of Science Bonnevie Scholarship, 2009-2010

Dean's List with Distinction (Semester GPA 4.0), Fall 2009 through Spring 2011.

Academic Year Highest Academic Distinction, 2009-2010, 2010-2011.

Dean's List-Honorable Mention (Semester GPA 3.5-4.0, 12-14 credits), Fall 2011, Spring 2012.

Academic Year Academic Distinction, 2011-2012.

Excellence in Undergraduate Research Award for the Department of Mathematics, 2013

Galileo Circle Scholar, 2011, 2015

College of Science Award for Scholarship, 2017

Daniel Bartlett Fellowship, 2017

Employment

Teaching Assistant, Department of Mathematics, University of Arizona, 2013-2018

Courses Taught

College algebra (3 semesters)

Pre-calculus (2 semesters)

Calculus I (3 semesters)

Calculus II (1 semester)

Probability and statistics for engineers (1 semester)

Talks Given

Topological Groups, Graduate colloquium, October 9, 2013

(Given with Rachel Baumann and Amy Been)

Modelling web-crawlers on the Internet with random walks on graphs, Research tutorial group talk, December 11, 2014

The Hydrodynamic Limit for the Asymmetric Long Range Simple Exclusion Process, Seminar talk, April 13, 2016

Hydrodynamic Limits for Long Range Asymmetric Processes, Seminar talk, February 15, 2017

Hydrodynamic Limits, Research blitz talk, March 6, 2017

Probabilistic Opinion Dynamics, Seminar talk, November 1, 2017

Research Interests

Analysis, probability, stochastic processes, statistics, and causal diagrams

Publications

1. Sethuraman, S. and **Shahar, D. J.** (2018) Hydrodynamic limits for long-range asymmetric interacting particle systems. arXiv:1802.09674.
2. **Shahar, D. J.** (2017) Minimizing the variance of a weighted average. *Open Journal of Statistics*, 7, 216-224
3. **Shahar, D. J.** and Shahar, E. (2017) A theorem at the core of colliding bias. *International Journal of Biostatistics*, 13(1), [Epub, Mar 31]
4. **Shahar, D. J.** (2016) Deciding on a measure of effect under indeterminism. *Open Journal of Epidemiology*, 6, 198-232
5. Shahar, E. and **Shahar, D. J.** (2015) On which variable(s) should we condition to remove confounding bias? *British Journal of Medicine and Medical Research*, 10(4): 1-9
6. Shahar, E. and **Shahar, D. J.** (2013) Causal diagrams, the placebo effect, and the expectation effect. *International Journal of General Medicine*, 6: 821-8
7. Shahar, E. and **Shahar, D. J.** (2013) Causal diagrams and cross-sectional studies. *Clinical Epidemiology*, 5: 57-65

8. Shahar, E. and **Shahar, D. J.** (2013) Marginal structural models: much ado about (almost) nothing. *Journal of Evaluation in Clinical Practice*, 19: 214-22
9. Shahar, E. and **Shahar, D. J.** (2012) Causal diagrams and the logic of matched case-control studies. *Clinical Epidemiology*, 4: 137-44 [Erratum: *Clinical Epidemiology* 2014; 6: 59]
10. Shahar, E. and **Shahar, D. J.** (2012) Causal diagrams and three pairs of biases. In: *Epidemiology –Current Perspectives on Research and Practice* (Lunet N, Editor). www.intechopen.com/books/epidemiology-current-perspectives-on-research-and-practice, pp. 31-62 (book chapter)
11. Shahar, E. and **Shahar, D. J.** (2012) Causal diagrams and change variables. *Journal of Evaluation in Clinical Practice*, 18: 143-8
12. Shahar, E. and **Shahar, D. J.** (2010) Causal diagrams, information bias, and thought bias. *Pragmatic and Observational Research*, 1: 33–47
13. Shahar, E. and **Shahar, D. J.** (2010) On the definition of effect modification. *Epidemiology*, 21: 587 (letter to the editor)
14. Shahar, E. and **Shahar, D. J.** (2010) More on selection bias. *Epidemiology*, 21: 429-30 (letter to the editor)
15. Shahar, E. and **Shahar, D. J.** (2009) On the causal structure of information bias and confounding bias in randomized trials. *Journal of Evaluation in Clinical Practice*, 15: 1214-6