

Brian Zaharatos

Email: brian.zaharatos@colorado.edu

Blog: bzaharatos.wordpress.com

Web: colorado.academia.edu/BrianZaharatos/

“A student is not a container you have to fill but a torch you have to light up.”
--Albert Einstein

Education

Colorado School of Mines, Golden, CO

Thesis title: *Statistical Modeling of Photovoltaic Device Performance*. Advisors: Luis Tenorio and Paul Constantine

Publications

(2015).

"Discovering an Active Subspace in a Single-Diode Solar Cell Model" (co-authored with Paul Constantine and Mark Campanelli). *Statistical Analysis and Data Mining*. In Press. (2015).

"Nanoethics and Policy Education: A Case Study of Social Science Coursework and Student Engagement with Emerging Technologies" (co-authored with Jessica Rolston, Skylar Huzyk, Corinne Packard, and Carl Mitcham). *NanoEthics: Studies of New and Emerging Technologies*. Vol. 8(3). (2014).

"Daniel Kahneman." In *Ethics, Science, Technology, and Engineering*, Second Edition. Eds. Carl Mitcham, Britt Holbrook. Macmillan Reference. (2014).

"Decision Theory." In *Ethics, Science, Technology, and Engineering*, Second Edition. Eds. Carl Mitcham, Britt Holbrook. Macmillan Reference. (2014).

"Misconduct in the Mathematical Sciences." In *Ethics, Science, Technology, and Engineering*, Second Edition. Eds. Carl Mitcham, Britt Holbrook. Macmillan Reference. (2014).

"Peter Singer." In *Ethics, Science, Technology, and Engineering*, Second Edition. Eds. Carl Mitcham, Britt Holbrook. Macmillan Reference. (2014).

"Probability: Basic Concepts of Probability Theory." In *Ethics, Science, Technology, and Engineering*, Second Edition. Eds. Carl Mitcham, Britt Holbrook. Macmillan Reference. (2014).

"Statistics" (a five part series). In

Philosophy and received many positive student evaluations.

Invited Talks

“Beyond the ‘Intersection’: A new Paradigm for the Integration of the Liberal Arts and STEM.” Colorado School of Mines, April 2016.

“Beyond Algorithms: Philosophy of Statistics in the Standard Curriculum.” Sponsored by the Committee for the History and Philosophy of Science, University of Colorado Boulder, February 23, 2016.

“Inverse Problems and Uncertainty Quantification: A Gentle Introduction.” University of Colorado, Boulder, CO. April 2015.

“Statistics and Rationality.” Northern Arizona University, Flagstaff, AZ. April 2015.

“Statistics as a Liberal Art.” The Evergreen State College, Olympia, Washington. March 2015.

“Social Movements and Rationality.” The Evergreen State College, Olympia, Washington. March 2015.

Service

Judge, Rocky Mountain Ethics Bowl, Fall 2016

Referee,
, Summer 2016

Statistics Committee Member, Department of Applied Mathematics, University of Colorado Boulder, Boulder, CO, Spring 2016-present

IT Committee Member, Department of Applied Mathematics, University of Colorado Boulder, Boulder, CO, Spring 2016-present

Committee for the History and Philosophy of Science Member, University of Colorado Boulder, Boulder, CO, Spring 2016-present

Faculty Advisor, Undergraduate SIAM Chapter, University of Colorado Boulder, Boulder, CO, September 2015-present

Social Chair, Graduate Student Government, Colorado School of Mines, Golden, CO, September 2014-present

Ethics Across Campus Student Representative, Colorado School of Mines, Golden CO, May 2013-present

Sustainability Committee Graduate Student Representative, Colorado School of Mines, Golden, CO, September 2013-present

Applied Mathematics and Statistics Dept. Representative, Graduate Student Government, Colorado School of Mines, Golden, CO, September 2013-July 2014

AmeriCorps National Civilian Community Corps Member, Denver, CO
Over two-thousand service hours with non-profits/the US Forest Service in 2008.
Received Presidential Volunteer Service Award and Bronze Congressional National Service Award.

Nevada Conservation Corps Member, Reno, NV
Over four-hundred service hours with nonprofits/US Forest Service/Bureau of Land Management in 2009.

Conferences