

# Brian Zaharatos

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*“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