

## SUMMARY

<b>PhD training</b>	Bayesian statistics (causal inference, hierarchical models, model averaging, nonparametric theory) Classical statistics (mixed models, statistical learning, experimentation, asymptotic theory)
<b>Current interests</b>	Artificial neural networks, statistical properties of machine learning methods, Bayesian methods for machine learning, ProjectEuler+
<b>Frequently used</b>	Python, Tensorflow, Keras, R, SQL, Spark, Jupyter Notebook, Amazon S3, Amazon EC2, $\LaTeX$
<b>Occasionally used</b>	Java, C++, HTML, CSS, Javascript

## EXPERIENCE

<b>Senior Data Scientist</b> , BitSight	<i>Boston MA</i>	02/2019–Present
<b>Data Scientist</b> , BitSight	<i>Boston MA</i>	10/2017–02/2019
<ul style="list-style-type: none"><li>• Oversee all data science requirements for third-party risk management projects through cross-functional collaboration in designing metrics, building prototypes, deploying machine learning models, and communicating results to stakeholders</li><li>• Design observational studies to evaluate the association and causality of relationships pertaining to efficacy of products, impact of extraneous events, and influence of internal interventions</li><li>• Supervise one data science intern working on sales/marketing analytics and external data validation</li><li>• Lead reading groups covering advanced topics in forecasting methods, prediction intervals, and model evaluation metrics</li><li>• Program internal Python scripts and modules for data storage, collection, cleaning, analysis, and visualization</li></ul>		
<b>Technical Advisor</b> , Insight Data Science	<i>Boston MA</i>	05/2019–Present
<ul style="list-style-type: none"><li>• Mentoring data science projects for five PhD graduates/postdoctoral researchers by providing feedback on project ideation, data considerations, modeling techniques, and communicating results</li><li>• Organize mock interviews based on the type of role that interests the candidate</li><li>• Run workshops on probability, statistics, Python coding, and business cases</li></ul>		
<b>Data Science Fellow</b> , Insight Data Science	<i>Boston MA</i>	05/2017–09/2017
<ul style="list-style-type: none"><li>• Generated idea for predicting supply/demand at Hubway bike-sharing stations in Boston, despite a lack of labeled data</li><li>• Consolidated and cleaned multiple data sources to tally labeled information for 200 bike stations over 11 million time points</li><li>• Predicted and visualized real-time supply/demand for each bike station using various machine learning and statistical models</li></ul>		
<b>PhD Student, Research Assistant</b> , Harvard University	<i>Cambridge MA</i>	08/2012–09/2017
<ul style="list-style-type: none"><li>• Conducted original statistical research on applied problems in genetics, health care policy, and end-of-life care</li><li>• Developed novel R code for handling datasets with complexities such as sampling bias, misclassified outcomes, correlated outcomes, hierarchical structures, and confounding</li><li>• Taught graduate-level labs with topics ranging from introductory statistics to seminar topics in Bayesian nonparametrics, decision theory, and sequential methods</li><li>• Selected to tutor fellow PhD students for the biostatistics written qualifying exam</li></ul>		
<b>Full-time Co-op Work Semesters</b> , University of Waterloo	<i>Waterloo ON</i>	05/2008–12/2011
<ul style="list-style-type: none"><li>• Completed six semesters of full-time work at Munich Re, Manulife, Hewitt Associates, and Logitech</li><li>• Applied statistical and actuarial methods to problems in biometric research, enterprise risk management, segregated fund valuation, group benefits pricing, pension administration, and database analysis</li></ul>		

## EDUCATION

<b>PhD, Biostatistics</b> , Harvard University	<i>Cambridge MA</i>	2017
<ul style="list-style-type: none"><li>• Thesis: Statistical Methods for the Analysis of Observational Data with Multiple Correlated Outcomes</li><li>• Advisors: Tianxi Cai, Francesca Dominici</li></ul>		
<b>Bachelor of Mathematics</b> , University of Waterloo	<i>Waterloo ON</i>	2012
<ul style="list-style-type: none"><li>• Honours Actuarial Science/Finance Option, Honours Statistics, Co-operative Program</li></ul>		
<b>Deep Learning Specialization</b> , deeplearning.ai	<i>Coursera</i>	2018
<b>Associate of the Society of Actuaries</b> , Society of Actuaries	<i>Schaumburg IL</i>	2012