

**Benjamin Brew (Data Scientist) - Co-founder and CEO of databrew**

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**WORK EXPERIENCE****The Hospital for Sick Children (SickKids) (Current)**

- Data Scientist for the Genetics and Genome Biology Lab. Using data integration and machine learning methods to solve problems in biostatistics.
- Head analyst on Li Fraumeni Project - Building models to predict cancer outcomes among patients with Li Fraumeni Syndrome.
- Head analyst on missing data project - Evaluating optimal clustering methods in the presence of missing data.

**Canadian Bioinformatics Workshops (2015-2016)**

- Faculty for Introduction to R and Data Science in R annual workshops.

**Data Science for the Social Good Program, University of Chicago (Summer 2015)**

- Fellowship applying machine learning and data science to social good projects.
- Helped the EPA prioritize inspections of hazmat facilities using a predictive model. Built a web interface to visually interact with the results of our model. The EPA is currently using the model we built to conduct field inspections.

**Florida Department of Public Health (Remote, 2014-2015)**

- Statistical consultant to Disease Control Unit Arbovirus Surveillance operations (volunteer)

**Sewanee: The University of the South (Sewanee, TN 2010)**

- Assisted the chair of the economics department in an econometric analysis on the determinants of drop-out rates at the university.

**EDUCATION**

*Note: French master's programs are separated into two separate years, with a degree awarded for each year.*

**Paris School of Economics (Paris, 2014-2015)**

- Master 2 in Economics, with a specialization in econometrics, demography, and health.
- Thesis: *An Econometric Analysis of Flu Immunization and Student Absenteeism*. Predict school absenteeism as a function of individual student immunization status.
- Courses dedicated to both economic theory and quantitative analysis.

**University of Paris 1: Pantheon-Sorbonne (Paris, 2013-2014)**

- Master 1 in Applied Mathematics, with a specialization in quantitative finance (GPA: 3.78/4.0)

**Sewanee: The University of the South (Sewanee, TN 2008-2012)**

- Major: Economics, Minor: Chinese and Asian Studies (GPA: 3.72/4.0)
- Thesis: *Moral Hazard Bike Crashes in Competitive Cycling (2012)*- The analysis revealed that a mandatory helmet rule was associated with 15% higher probability of crashing due to moral hazard.
- Graduated with honors and a member of the Order of the Gownsmen (academic society).
- Recipient of the Biehl International Research Grant and the Dora Maunevich Kayden Scholarship for Graduate Studies in Economics.

**SKILLS & INTERESTS**

**Analysis:** R, Stata, Python, SQL, Tableau, Latex, and Excel.

**Finance:** Passed CFA level 1 exam.

**Invited Talks:** (1) *Machine Learning in Medicine*, Data Science for Social Good Conference, 2016. Chicago, Illinois. (2) *Methylation Data Accurately Predicts Age of Onset in Patients with Li Fraumeni Syndrome*, The American Association for Cancer Research Annual Conference, 2017. Washington DC.

