

## Elias Tuomaala

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### Education

#### HARVARD UNIVERSITY

Bachelor of Arts (BA) *cum laude* in Applied Mathematics.

Fulbright Undergraduate Grant. High Honors. Grade point average: 3.71/4.00.

Selected coursework:

computer science, advanced scientific computing, theoretical statistics, econometrics, linear algebra, real analysis, convex optimization, micro-/macroeconomic theory, market design.

Cambridge, MA

Aug 2015 - May 2019

### Work Experience

#### FIT ANALYTICS | SNAP INC

##### Data Scientist.

- Development and maintenance of complex machine learning size recommendation systems at Fit Analytics, Snapchat's research and development subsidiary for online shopping.
- Focus: statistical modeling, Bayesian statistics, prototyping, A/B testing.
- Created multiple size recommendation models that facilitate millions of online purchases globally.

Berlin, Germany

Apr 2020 – present

#### CAMBRIDGE ECONOMETRICS

##### Assistant Economist.

- Three months of software development at an economic consultancy in Cambridge, England.
- Sole responsibility over development of a Python-based economic modeling software.

Cambridge, England

May – Aug 2018

#### HARVARD UNIVERSITY: DEPARTMENT OF ECONOMICS

##### Research Assistant; Course Assistant.

- Data analysis on sewage systems and antibiotic-resistant bacteria in Hyderabad, India.
- Methods: spatial data analysis with Python and R.

Cambridge, MA

Feb 2017 – Dec 2017

### Research

Elias Tuomaala. (2019) "The Bayesian Synthetic Control: Improved Counterfactual Estimation in the Social Sciences through Probabilistic Modeling." Arxiv open access.

### Programming Contributions

Elias Tuomaala. (2020) "*bayessynth*: BSC Models in Python." Python library. Python Package Index – PyPi. <https://pypi.org/project/bayessynth>.

### Leadership

#### EUROPEAN FORUM ALPBACH (EFA) CLUB OF FINLAND

##### Co-founder; Treasurer.

- I co-founded the Finnish chapter of EFA, the forum for peace and democracy in Europe.

Cambridge, MA

Dec 2019 – present

#### HARVARD COLLEGE EUROPEAN SOCIETY

##### President.

- Leadership of one of the largest undergraduate student organizations on Harvard's campus.

Cambridge, MA

Apr 2017 – May 2018

### Skills & Interests

**Languages:** English, Finnish. Learning: German.

**Python programming:** Stan, numpy, pandas, tensorflow, sklearn, scipy, pymc3, matplotlib, seaborn.

**Other technical skills:** GCP, Git, Linux, PostgreSQL. Intermediate Haskell.

**Interests:** FOSS/Open Source, Haruki Murakami, Indian Cuisine, Camino de Santiago.