

SAMUEL FRAIBERGER

DATA SCIENTIST

PERSONAL PROFILE

I am a data scientist with the [World Bank's Development Data Group](#). I [publish research](#) and develop analytical tools to inform economic development policies using big datasets, machine learning and social science methods. My research has appeared in leading academic journals and conferences across disciplines ([Science](#), [Science Advances](#), the [Journal of International Economics](#), [EMNLP](#), [KDD](#), [TED](#)), as well as in the popular press ([The Wall Street Journal](#), [The Economist](#), [The Washington Post](#)). I am also a visiting researcher at the [NYU Center for Data Science](#), a fellow at [MIT Connection Science](#) and a senior research affiliate at [Data-Pop Alliance](#).

SKILLS & ABILITIES

- Programming: Python, Spark, R, SQL, Linux
- Analytical: machine learning, natural language processing, econometrics, causal inference, network science, computational social science
- Language: English, French, Chinese (basic), Russian (basic)

CONTACT INFORMATION

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EMPLOYMENT HISTORY

Data Scientist

World Bank Group (2017 - Present)

- Lead a team of data scientists working with text, social media, satellite imagery and mobile phone data
- Build data science products to inform economic development policies
- Publish peer-reviewed research
- References: [Haishan Fu](#), [Olivier Dupriez](#)

Postdoctoral Research Associate

Harvard and Northeastern Universities (2015 - 2017)

- Published peer-reviewed research
- References: [Albert-László Barabási](#), [David Lazer](#)

EDUCATION

New York University, GSAS

Ph.D. in Economics, May 2015

References: [Xavier Gabaix](#) (advisor), [Romain Ranciere](#), [Arun Sundararajan](#), [Foster Provost](#), [Lakshmi Subramanian](#)

Harvard University, GSAS

Master of Science in Applied Mathematics, 2007

SELECTED ACADEMIC PAPERS

- M. Tonneau, D. Adjodah, J. Palotti, N. Grinberg, **S. Fraiberger**, Multilingual Detection of Personal Employment Status on Twitter, Under Review at ACL
- A. Balashankar, L. Subramanian, **S. Fraiberger**, Fine-grained Prediction of Food Insecurity Using News Streams, Under Review at Science Advances
- **S. Fraiberger**, D. Lee, D. Puy, R. Ranciere, [Media sentiment and international asset prices](#), Journal of International Economics Volume 133, November 2021, 103526
- N. Oliver, B. Lepri, H. Sterly, R. Lambiotte, S. Deletaille, M. De Nadai, E. Letouzé, A. Ali Salah, R. Benjamins, C. Cattuto, V. Colizza, N. de Cordes, **S. Fraiberger**, et al, [Mobile phone data for informing public health actions across the COVID-19 pandemic life cycle](#), Science Advances 10.1126/sciadv.abc0764 (2020)
- A. Balashankar, S. Chakraborty, **S. Fraiberger**, L. Subramanian, [Identifying Predictive Causal Factors from News Streams](#), Proceedings of the 2019 Conference on Empirical Methods in Natural Language.
- **S. Fraiberger**, R. Sinatra, M. Resch, C. Riedl, A.L. Barabási, [Quantifying reputation and success in art](#), Science 362, 825-829 (2018)