

# Ofir Reich - CV

## Summary

I'm a freelance data scientist with 15 years of experience analyzing data, designing algorithms & products, and solving problems. I have extensive experience in Machine Learning, data visualization and advanced statistics for causal inference and experiment design. I'm interested in global poverty alleviation, and have worked in the private sector, academia and NGOs.

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## Professional experience

2021 - present **Data Scientist**, Freelance. Startups [Singular](#), [Fionic](#), [Assured](#), [Forter](#), [Redefine](#), ...

2019 - 2021 **Data Scientist**, [Flood forecasting initiative](#), Google Research.



Machine Learning Hydrologic predictions, last mile delivery to millions of users, causal inference using MapReduce on petabytes of data, production-grade python code. COVID-19 epidemiological simulations papers[[1](#), [2](#)], cited 30+ times.

2015 - 2019 **Freelance Data Scientist**, Economic Development projects

[CEGA](#), [UC Berkeley](#), an academic network of top development economics professors.



Collaborate with world-leading professors from Harvard, Berkeley, UCSD, UW, WUSTL. Analyze the universe of VAT returns from an Indian state to detect tax fraud. [Paper](#).



In Afghanistan, analyze mobile phone Call Detail Records to monitor teacher attendance, Analyze Visa's financial transactions big-data to track financial inclusion globally.

[Precision Agriculture for Development](#) (PAD), a non-profit providing mobile phone based agricultural extension to poor smallholder farmers in Africa and South-Asia.



Harness in-house data and partners' data using advanced algorithms to optimize mobile-phone based agricultural extension services to farmers in India and Ethiopia.

Design and oversee development of a lean A/B testing platform from scratch. [Paper draft](#)

2014 - 2015 **Chief Data Scientist & Machine Learning expert**, [Forter](#), start-up company now valued at \$3Bn, supplying a completely automated real-time e-fraud prevention solution.



Data Science team leader. Sole responsibility for core decision-making model. Mentoring risk analysis team leaders, extracting & communicating insights from a combination of domain expertise and data.

2013 **One year world travel + blogging**. [Lesotho](#), [Congo](#), [Senegal & Mali](#), Nepal, India.

2006 – 2012 **Data Scientist**. [Unit 8200](#), The Elite Technological Unit of the IDF Intelligence Corps. Groundbreaking mathematical, algorithmic and technological research.



**Data mining & Machine Learning**: extensive experience: data cleaning, analysis, modeling  
**Algorithms**: Developed & implemented algorithms for complex data modeling problems.  
**Command** of six officers. Sole responsibility for their professional & personal development.  
**Awards**: Four research excellence awards, decorated by unit commander (Col.)

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## Education

2014 - 2015 **M.A. & Ph.D. courses in Economics**, Tel Aviv University & UC Berkeley.  
Berkeley: Data-Intensive International Development, Graduate Development Economics

2003 – 2006 **B.Sc. Mathematics & Physics**. The Hebrew University of Jerusalem, Israel.  
Graduated *magna cum laude*. Grade Average: 96.2 / 100 (top 3%). Graduate CS courses.

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Languages: Hebrew, English, French, Spanish, Mandarin