

# Sam Swift

Experienced data science leader and quantitative social scientist

## CONTACT

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## EXPERIENCE

### Betterment, New York — *Director of Analytics & Data Science*

2014 - PRESENT

Led data science and analytics functions through 6x company growth

- Hired for and built out independent analytics & data science function
- Built company-wide reproducible knowledge repository as single source of truth
- Managed business partnership with data engineering
- Reported to management team and owned board-level interpretation of data
- Created internal package development and peer-review processes

Developed and implemented data-centric solutions across business functions, e.g.

- |           |  |
|-----------|--|
| Product   | <ul style="list-style-type: none"><li>○ Designed and built in-house bayesian A/B testing platform</li><li>○ Owned user event-stream implementation and interpretation</li><li>○ Investor behavior monitoring and behavioral design</li></ul> |
| Marketing | <ul style="list-style-type: none"><li>○ Marginal CPA models and experimental inference</li><li>○ Customer acquisition channel-attribution</li></ul>  |
| Finance   | <ul style="list-style-type: none"><li>○ Predictive models of customer lifetime value</li><li>○ OKRs, metric definition and reporting</li></ul>   |

### University of Pennsylvania, Wharton — *Lead Data Scientist*

2012 - 2014

Managed [distributed team](#) of developers, statisticians, and graduate students in CIA-funded geopolitical forecasting tournament. Built and maintained data pipelines, developed algorithms which outperformed classified forecasts by 30%.

## EDUCATION

### Carnegie Mellon University — *PhD, Organizational Behavior*

2012

Used experimental and big-data approaches to answer questions about the psychology of economic decision making. Seven [published papers](#) in top management and psychology journals. My research has been covered in the [Wall Street Journal](#), [Financial Times](#), [Los Angeles Times](#), [Scientific American](#), [more](#)

### Carnegie Mellon University — *BS, Decision Science*

2004

## TECHNICAL SKILLS

R

SQL

Statistics & machine learning

Git & software development

Experimental design & inference

Database design

## ACADEMIC EXPERTISE

Behavioral Economics

Crowd Wisdom, Forecasting

Managerial Decision Making

Negotiation

Overconfidence in Organizations

## MODES OF TRAVEL

Land: Motorcycle, running

Water: Sailing, motorboat, scuba

Air: ½ flight training completed