

# Will Wolf

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## EDUCATION

### Open-Source Machine Learning "Master's"

*A 10-month, self-curated deep-dive into select topics in machine learning*

Casablanca, Morocco

Sep 2016 – July 2017

### Penn State University, Schreyer Honors College

*Bachelor of Science, Industrial Engineering, with minor in Mathematics*

University Park, Pennsylvania

Sep 2007 – Dec 2011

- 3.57 / 4.0 GPA, Dean's List 6 semesters
- Honors thesis (supervised by Dr. Chris Byrne): *Prisoner's Dilemma Games on a Geodesic Dome*

## EXPERIENCE

### Staff Machine Learning Engineer

May 2021 – Present

### Lead Machine Learning Engineer

Sep 2020 – May 2021

### Research Engineer

Oct 2018 – Sep 2020

### Senior Machine Learning Engineer

Aug 2017 – Oct 2018

*ASAPP*

*New York, New York*

- Research and develop methods (supervised by Dr. Kilian Q. Weinberger) for dialog generation, dialog segmentation, "procedure induction" in goal-oriented dialog, text recommendation and online learning
- Develop, build, deploy and maintain production services for intent classification, personalized next-utterance recommendation and conversation summarization (used by Vodafone, jetBlue, Dish, etc.)
- Work across Research, Machine Learning Engineering, Data Science and Product teams
- Mentor junior team members in research, software engineering and machine learning fundamentals

### Data Scientist

Mar 2015 – July 2016

*ShopKeep*

*New York, New York*

- Developed, built and maintained internal service for computing merchant similarity in a continuous space
- Developed and built survival analysis models for predicting merchant churn
- Authored internal software package offering composable predictive modeling objects
- Built and maintained ETL infrastructure for data ingestion, transformation and visualization

### Data Science Teacher (part-time)

Aug 2015 – Dec 2017

*Thinkful*

*Remote*

- Mentored students throughout a 10-12 week, project-based data science curriculum
- Main topics: the Python scientific and inferential stack, databases and APIs, Git and version control, probability and statistics, applied machine learning

### Data Science Consultant (part-time)

Sep 2015 – Feb 2016

*Data-Pop Alliance*

*New York, New York*

- Researched and developed methods for using cell phone call records to predict population figures in West Africa

### Online Poker Player

Jan 2005 – Jan 2011

*Internet*

*Remote*

- Built \$50 into \$150,000 playing 6-8 tables simultaneously
- Hired to coach players worldwide in poker theory and strategy

## SELECTED WRITING, CODE

[willwolf.io/machine-learning](http://willwolf.io/machine-learning) | Approximate inference, Bayesian methods, generative models, neural networks, etc.

[github.com/cavaunpeu](https://github.com/cavaunpeu) | Implementations of machine learning algorithms

## SELECTED TALKS, TEACHING

**NYC Machine Learning** | *A Practical Guide to the Open-Source Machine Learning "Master's"*

Aug 2019

**Boston Bayesians** | *Minimizing the Negative Log-Likelihood, In English*

Aug 2018

**Facebook Developer Circles Casablanca** | *You've Been Doing Statistics All Along*

May 2017

**Platzi (Bogotá, Colombia)** | Taught data science courses in English and Spanish

Aug 2016

## PERSONAL

**Languages** | English (native), Spanish (advanced), French (advanced), Russian (intermediate)

**willtravellife.com** | Stories from 65+ countries, and a 7,500 kilometer bicycle ride from Turkey to Kyrgyzstan