

# Evan Casey

ML and Deep Learning Researcher  
New York, NY

[ev.ancasey.com](http://ev.ancasey.com)  
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## Experience

### Research Engineer – Cogitai

May 2017 - July 2018

- Joined the company as the first software engineer on the robotics team alongside a team of 6-10 research scientists.
- Core contributor to Cogitai's machine learning and robotics libraries. Implemented, tuned, and productionized reinforcement (A2C, PPO, DQN, SAC, etc) and contextual bandit (LinUCB) algorithms.
- Research and development on action-conditional representations for RL, recurrent policy learning, hierarchical RL, and learning from human preferences.

### Sabbatical – Recurse Center

March 2016 - June 2016

- 3-month sabbatical of self-directed research in deep learning and reinforcement learning. Read lots of papers, implemented some of them.

### Date Engineer – Tapad (acquired by Telenor in Feb. 2016)

May 2014 - March 2016

- Built and maintained large-scale (100TB+) Hadoop pipelines powering a graph-based representation of device ownership that uses a probabilistic model to infer relationships.
- Led development of Tapad's ad inventory forecasting system, which ingests billion of records daily in Elasticsearch. Researched and implemented algorithms for large-scale audience clustering.
- Backend development on a realtime ad buying platform. Low latency (95th percentile response time around 25ms), high throughput (peaking above 750k QPS).

### Engineering Intern – One Kings Lane

Summer 2013

- Built a product recommendation service based on multi-armed bandits and contributed to Babar, an A/B testing framework using Ruby on Rails.

## Teaching

Workshop Instructor and Co-founder | AI Atelier ([ai-atelier.com](http://ai-atelier.com))  
Applied Deep Learning (Tensorflow)

May and June 2018

Teaching Assistant | Claremont McKenna College  
MATH 152: Statistical Inference

2012

## Relevant Skills

### Programming Languages

- Python, Scala, Java, Javascript

## Systems and Tools

- Tensorflow, MxNet, PyTorch, Spark, Hadoop, Kafka, Elasticsearch, Docker

## Publications

### CONFERENCE PAPERS

Thinking Between the Lines: Guided 2D Animation with Generative Adversarial Networks      2018  
**Evan Casey**, Harry Teitelman  
Accepted as Poster at NIPS Workshop on Machine Learning for Creativity and Design

### UNDERGRADUATE THESIS

Scalable Collaborative Filtering Recommendation Algorithms on Apache Spark      2014  
**Evan Casey**, Deanna Needell  
Outstanding Thesis in Mathematics and Computer Science

## Education

B.A. Mathematics, Economics, minor in Computer Science  
**Claremont McKenna College**      2010–2014

- Selected coursework: Machine Learning, Real Analysis, Complex Analysis, Probability Theory, Statistical Inference, Differential Equations, Discrete Mathematics, Data Structures & Algorithms

## Achievements

HackNY Fellowship – Summer internship program      2014  
Finalist – Greylock Hackfest      2013  
Janet Myhre & Leon Hollerman Scholarship      2010 - 2014

## Other

Outside of machine learning research, I am a skateboarder and visual artist. In high school, I raised \$875,000 in grant money for a skate park in my hometown and once lived in Mongolia for a summer.