

Jesse Galef

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<https://github.com/JesseGalef/Portfolio>

EDUCATION

Columbia University, Class of 2019

M.S. in Computer Science, Machine Learning Track

GPA: 3.90

General Assembly, Cohort 8, 2016

Boston Data Science Program

University of North Carolina at Chapel Hill, Class of 2008

B.S. with Distinction in Political Science

Minor in Computer Science

SKILLS

- Python, SQL, JavaScript, HTML, CSS
- Machine Learning, Deep Learning, Natural Language Processing, Bayesian Modeling
- Keras, TensorFlow, Pandas, Scikit-Learn, Numpy, NLTK, BeautifulSoup, Pymc3, Seaborn, Matplotlib, D3

PORTFOLIO <https://github.com/JesseGalef/Portfolio>

- Regularization Hyperparameter Tuning with Reinforcement Learning: Using PPO to Reduce Overfitting
- Improving Image Classification with Data Augmentation: Pretending We Have More Data
- Quantifying the 'Trumpiness' of Political Speech Using Natural Language Processing
- Evaluating NFL Predictability: Controlling for Non-Linear Confounding Variables With Inverse Propensity Weighting
- Making Judgments on Limited Information: Using Bayesian Inference to Compare Options
- Estimating Pi from Random Numbers: Variance Reduction with Antithetic and Control Variates

EXPERIENCE

General Assembly – Boston, MA

Data Science Teaching Assistant *April 2016 - February 2017*

- Planned and presented lessons on key machine learning concepts and Python programming techniques
- Worked one-on-one with students to plan and troubleshoot final projects

Independent Contractor *October 2014 - Present*

Spark Wave – New York, NY (Current Project)

- Design and test neural net architectures to improve image data imputation
- Serve as specialist consultant on Scikit-Learn and Keras libraries for others at Spark Wave

Machine Intelligence Research Institute – Berkeley, CA

- Self-taught Google Analytics to recommend changes to boost workshop signups and paper downloads
- Organized logistics for workshop series, coordinating 50 researchers from around the world

Future of Life Institute – Cambridge, MA

- Directed and organized press event explaining future of machine learning to top tech journalists
- Assisted allocation of \$10 million research grant program to 37 machine learning projects
- Wrote scripts integrating Google Forms, Google Sheets, and organization website to keep list of thousands of open letter signatories up to date

Centre for Effective Altruism – Oxford, UK

- Led strategic planning to define metrics to quantify impact of international grassroots program
- Gave public talks on making evidence-based charitable decisions

Secular Student Alliance – Columbus, OH

Communications Director *February 2010 - January 2014*

- Directed media strategy, generating coverage in outlets including The New York Times, Washington Post, The Atlantic, and CNN
- Taught media relations and messaging to hundreds of grassroots leaders through talks and workshops
- Created new company website using PHP and HTML to modify Drupal theme