

# DYLAN LABATT RANDLE

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## EDUCATION

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**Harvard University** Cambridge, MA  
*M.S. in Data Science* Expected May 2020  
Relevant coursework: Advanced Data Science, Stochastic Methods for Optimization, Modeling and Inference, Systems Development for Computational Science, Computational Science Seminar

**University of California, Berkeley** Berkeley, CA  
*B.S. in Industrial Engineering & Operations Research, High Honors* May 2016  
Relevant coursework: Statistics and Machine Learning, Probability, Forecasting, Mathematical Programming, Nonlinear and Discrete Optimization, Stochastic Processes

## RELEVANT EXPERIENCE

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**Institute for Applied Computational Science, Harvard University** Cambridge, MA  
*Research Assistant* Nov 2018 - Present

- Researching physics-aware machine learning methods for turbulence modeling, supervised by Pavlos Protopapas and David Sondak

**Hubdoc, Inc** Toronto, Canada  
*Data Scientist & Machine Learning Engineer* Feb 2017 - July 2018

- Developed and deployed deep learning system (LSTM & CNN) for information extraction and text classification from financial documents. Saved \$1MM+ per year by decreasing labor costs and service times by orders of magnitude. Used Python, Tensorflow, Keras, AWS, PostgreSQL, Ansible
- Built data visualizations for company intranet. Presented results and recommendations to management team; delivered introductory machine learning lecture to audience of 60+ people

## RELEVANT PROJECTS

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**Twitter Troll Detection:** [https://dylanrandle.github.io/troll\\_classification](https://dylanrandle.github.io/troll_classification)

- Achieved 96% accuracy in classifying tweets as trolls, using a dataset of Twitter handles indicted for meddling in the 2016 U.S. presidential election

**Automatic Differentiation:** <https://github.com/dylanrandle/autograd>

- Built a Python package implementing automatic differentiation (forward and reverse mode). Used to implement gradient descent and Adam optimizers, with extensive documentation.

## LEADERSHIP EXPERIENCE

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**Taylor Statten Camps** Algonquin Park, Canada  
*Long Trip Counselor* Summer 2015/2016

- Led 50-day and 36-day wilderness canoe trips through Northern Ontario and Minnesota. Planned route and food drops, navigated 2500km+ of rugged wilderness, and ensured safety of numerous groups of 7 teenage boys

## TECHNICAL SKILLS

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<b>Proficient</b>	Python (numpy, pandas, scikit-learn, pytorch, tensorflow, pymc3), SQL, Git
<b>Familiar</b>	Javascript, C++, MATLAB, Latex