Piotr Teterwak

Google Scholar
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EDUCATION

- **Boston University** — Boston, MA
  Ph.D. in Computer Science — *Sep. 2020- Expected 2025*
  - **Advisor**: Prof. Kate Saenko
  - **Awards**: Dean's Fellowship

- **Dartmouth College** — Hanover, NH
  Bachelor of Arts in Computer Science; High Honors — *Sep. 2010 - June 2014*
  - **Relevant Coursework**: Reading Course: Parallel Systems, Algorithms, Topics in Algorithms and Complexity: Concurrent Algorithms, Topics in Applied Computer Science: Deep Learning, Machine Learning
  - **Senior Thesis**: Shared Roots: Regularizing Deep Neural Networks through Multitask Learning Explored multitask learning as a form of network regularization and model ensembling.
  - **Awards**: 2014 John G. Kemeny Computing Prize, Second Place, Innovation category, for Senior Thesis.

PUBLICATIONS

- **Supervised Contrastive Learning**: Prannay Khosla, **Piotr Teterwak**, Chen Wang, Aaron Sarna, Yonglong Tian, Phillip Isola, Aaron Maschinot, Ce Liu, and Dilip Krishnan. NeurIPS 2020.
- **Boundless: Generative Adverserial networks for image extension**: **Piotr Teterwak**, Aaron Sarna, Dilip Krishnan, Aaron Maschinot, David Belanger, Ce Liu, and William T. Freeman. ICCV 2019.

EXPERIENCE

- **Google Research** — Cambridge, MA
  AI Resident — *June 2018 - August 2020*
  - **Mentors**: Dr. Ce Liu, Dr. Dilip Krishnan, Professor Mike Mozer
  - **Generative Modelling**: Conditional GAN's for image extrapolation, published in ICCV 2019.
  - **Representation Learning**: Extending contrastive learning to the supervised case. Published in Neurips 2020.

- **Apple** — Seattle, WA
  Machine Learning Engineer — *July 2016 - June 2018*
  - **Distributed Deep Learning**: Worked on a team implementing distributed training algorithms package for deep neural networks; optimizing for performance and usability across multiple machines.

- **Turi, Inc. (Formerly Dato, Inc. and GraphLab, Inc.)** — Seattle, WA
  Machine Learning Engineer — *July 2014 - July 2016*
  - **Toolkits Team**: Implemented a variety of machine learning modules in the GraphLab Create Python package, including Bayesian Changepoint Detection and Feature Engineering transforms.
  - **Education and advocacy**: Wrote technical blog posts, with an emphasis on accessibility; including **Deep Learning: Doubly Easy and Doubly Powerful with GraphLab Create**. Also gave tutorials on Deep Learning concepts in conferences such as Strata, Dato Data Science Summit, and the **NVidia GTC Conference**.

PROJECTS

- **Scaling Deep Neural Networks**: Parallelized the training of a neural network using MPI, implementing a variation of Downpour SGD
- **Training of Restricted Boltzmann Machines**: Experimented with various training methods of Restricted Boltzmann Machines, including Parallel Tempering, Persistent Contrastive Divergence, Contrastive Divergence, and a multiple chain algorithm of my own design

SKILLS

- **Computer Languages, Libraries, and Frameworks**: Python(Primary), C/C++(Secondary), TensorFlow, NumPy
- **Spoken Languages**: Fluent in Polish and English
- **Other**: Backcountry Skiing, Mountain Biking, General Adventuring