Piotr Teterwak

Google Scholar
Website

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Education

- **Boston University** — Boston, MA
  Ph.D. in Computer Science — *Sep. 2020- Expected 2025*
  - **Advisors**: Prof. Kate Saenko and Prof. Bryan Plummer
  - **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 and Preprints

- **VisDA-2021 Competition Universal Domain Adaptation to Improve Performance on Out-of-Distribution Data**: Dina Bashkirova*, Dan Hendrycks*, Dinghyun Kim*, Samarth Mishra*, Kate Saenko*, Kuniaki Saito*, **Piotr Teterwak***, Ben Usman*. * Equal Contribution. NeurIPS 2021 Competition Track
- **Understanding Invariance via Feedforward Inversion of Discriminatively Trained Classifiers**: **Piotr Teterwak**, Chiyuan Zhang, Dilip Krishnan, Michael C. Mozer. ICML 2021.
- **OCONet: Image Extrapolation by Object Completion**: Richard S. Bowen, Huiwen Chang, Charles Herrmann, **Piotr Teterwak**, Ce Liu, Ramin Zabih. CVPR 2021.
- **Supervised Contrastive Learning**: **Piotr Teterwak***, Prannay Khosla*, Chen Wang, Aaron Sarna, Yonglong Tian, Phillip Isola, Aaron Maschinot, Ce Liu, and Dilip Krishnan. NeurIPS 2020. *Equal contribution.
- **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.
  - **Representation Learning**: Extending contrastive learning to the supervised case. Understanding what is encoded in representations of classifications models by inversion.
- **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.; Acquired by Apple)** — 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**.

Skills

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