

Education

- **Mila, University of Montreal** Montreal, Canada
PhD in Machine Learning, supervised by Aaron Courville Fall 2017 - Present
- **Indian Institute of Technology, Kharagpur** Kharagpur, India
Integrated M.Sc. in Mathematics and Computing 2011 - 2016

Publications

- **Unsupervised State Representation Learning in Atari** ([arxiv](#))
*Ankesh Anand**, Evan Racah*, Sherjil Ozair*, Yoshua Bengio, Marc Cote, Devon Hjelm
Neural Information Processing Systems (NeurIPS), 2019
- **Blindfold Baselines for Embodied QA** ([arxiv](#))
Ankesh Anand, Eugene Belilovsky, Kyle Kastner, Hugo Larochelle, Aaron Courville
ViGIL Workshop at Neural Information Processing Systems (NeurIPS), 2018
- **HoME: a Household Multimodal Environment** ([arxiv](#))
Simon Brodeur, Ethan Perez, Ankesh Anand**, Florian Golemo*, Luca Celotti, Florian Strub, Jean Rouat, Hugo Larochelle, Aaron Courville
International Conference on Learning Representations (ICLR) Workshop Track, 2018
- **We used Neural Networks to Detect Clickbaits: You won't believe what happened Next!** ([arxiv](#))
Ankesh Anand, Tanmoy Chakraborty, Noseong Park
European Conference on Information Retrieval (ECIR), 2017
- **MMGAN: Manifold Matching Generative Adversarial Networks** ([arxiv](#))
Noseong Park, Ankesh Anand, Joel Ruben Antony Moniz, Kookjin Lee, Tanmoy Chakraborty, Jaegul Choo, Hongkyu Park, Youngmin Kim
International Conference on Pattern Recognition (ICPR), 2018

Work Experience

- **Microsoft Research** Montreal, Canada
Research Intern, Advisor: Philip Bachman Sept 2019-present
 - Working on self-supervised learning for model-based RL.
- **Microsoft Research** Montreal, Canada
Research Intern, Advisor: Marc Cote, Devon Hjelm January-June 2019
 - Worked on problems at the intersection of Reinforcement Learning and Representation Learning
 - The internship project led to a first-author publication at NeuRIPS'19: [Unsupervised State Representation Learning in Atari](#)

- **VISA Inc.** Bangalore, India
Software Engineer *August 2016-August 2017*
 – Full stack development for the VISA Developer Platform
- **HackerEarth** Bangalore, India
Backend Engineering Intern *May-July 2015*
 – Developed a new problem recommendation engine for HackerEarth, built resume parsing services and a real-time notification system for end-users.
- **Google Summer of Code** Remote
Student Developer *May-August 2015*
 – Built an online analytics platform for BRL-CAD which provides aggregated analytics for logs and performance metrics collected across different machines and platforms.
- **Max Planck Institute for Software Systems** Kaiserslautern, Germany
Visiting Scholar, Large Scale Internet Systems Group *May-July 2014*
 – Worked with an incubated startup named AirCloak to build tools for anonymized aggregated analytics using noise augmentation and selective filtering.

Projects

- **Contrastive Self-Supervised Learning for Model-Based RL**
Advisors: Prof. Aaron Courville, Philip Bachman
 – Used contrastive self-supervised learning to build latent space dynamics models.
 – Preliminary experimental results show that self-supervised latent models are more sample efficient than existing state-of-the-art model-based RL methods.

Honors and Awards

- **Hult Prize, 2015:** Regional Finalist at the Hult Prize 2015 in Dubai: the worlds largest student competition for social entrepreneurship
- **Penn Apps, 2016:** Finalist at PennApps Spring 2016, America's largest collegiate hackathon.
- **Scholarships:** Recipient of the NTSE (National Talent Search Examination) scholarship (2009-11) awarded by NCERT, India and the INSPIRE Scholarship (2012-16) awarded by the Department of Science and Technology India.

Technical Skills

- **Programming Languages:**
 – **Proficient:** Python, JavaScript, C++
- **Machine Learning Libraries:** PyTorch, TensorFlow, scikit-learn, numpy, Pandas
- **Web Development:** Django, Flask, NodeJS, ReactJS, HTML5, CSS3, MySQL