

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

- **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 (part-time), Advisor: Marc Cote, Devon Hjelm December 2018-present
 - Working on problems at the intersection of Reinforcement Learning and Representation Learning
- **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

• **Learning Generalized Representations for Zero-shot RL**

Advisors: Prof. Aaron Courville, Hugo Larochelle

- Used Domain Adversarial Learning to build state representations that are invariant to factors of variation that are not shared across tasks.
- Preliminary experimental results show that such representations are able to generalize across instances of the SONIC game with different textures

• **Intrinsically motivated exploration via uncertainty-aware models**

Advisors: Prof. Aaron Courville, Hugo Larochelle

- Developed a novel exploration method that guides an agent's towards regions that lead to most reduction in it's model uncertainty
- Preliminary results on delayed Mujoco tasks show that such an exploration bonus can outperform baselines and explore faster.

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.
- **Inter IIT Tech Meet, 2015:** Winner of the OpenSoft contest for developing an Android app that makes Information accessible to areas with low connectivity using Wifi P2P networks .
- **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