Jérôme Parent-Lévesque

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https://www.linkedin.com/in/jeromepl/
Languages: French, English (Bilingual)

EDUCATION

Université de Montréal, Mila Lab   Montreal, QC

Computer Science Master's under Professors Aaron Courville and Derek Nowrouzezahrai   2019-

McGill University   Montreal, QC

Honours Electrical Engineering Bachelor's   2015-2018

- CGPA: 3.95/4.00
- **Scholarships**: Brodeur-Drummond Scholarship, Christie Steinmetz Award, Faculty of Engineering Scholarship, John Green Memorial Award, Erim Kumbaracibasi Bursary Fund, John Howard Ambrose Scholarship

PUBLICATIONS

- Williams, Parent-Lévesque, Nowrouzezahrai, Panozzo, Yi, Tagliasacchi. **VoronoiNet : General Functional Approximators with Local Support.** *CVPR Workshop on Learning 3D Generative Models (2020).*
- Rajeswar, Mannan, Golemo, Parent-Lévesque, Vazquez, Nowrouzezahrai, Courville. **Pix2Shape: Towards Unsupervised Learning of 3D Scenes from Images Using a View-Based Representation**. *International Journal of Computer Vision (2020).* https://doi.org/10.1007/s11263-020-01322-1

EXPERIENCE

Ubisoft   Montreal, QC

Research and Development Intern   June 2020 – November 2020

- Leading a research project at the intersection of machine learning and real-time 3D rendering

Amazon   Vancouver, BC

Software Development Engineer Intern   May 2018 – July 2018

- Improved robustness of large-scale workflows for generating CSV reports to sellers on the AWS Marketplace platform
- Upgraded project dependencies to use AWS cloud services such as SQS and SNS and migrated from Java Swing to Guice

Vigilant – a DRW company   Montreal, QC

Full Stack Web Developer Intern (Full Time)   May 2017 – August 2017

- Created a web application from the ground up to manage financial data and to replace many outdated company tools
- Used technologies such as Node.js, Angular and TypeScript. Optimized the application for large data volumes
- In an Agile environment, stayed in communication with end users to adapt the application to their evolving needs

Digital Distributed Music Archives and Libraries Lab   McGill University, Montreal, QC

Software Developer / Research Assistant (Full Time)   May 2016 – Aug. 2016

- Continued development of the https://cantus.simssa.ca website with Backbone and Django
- Helped develop the initial release of https://musiclibs.net with React.js and Django
- Continued development and released version 5.0 of http://ddmal.github.io/diva.js/

PROJECTS

All my software projects can be found on my **GitHub** account: https://github.com/jeromepl

- **Deep Physics-Based Character Locomotion (Honours Thesis Project)**

  Final engineering project (Capstone), supervised by Derek Nowrouzezahrai. Research project attempting to improve upon state-of-the-art techniques for autonomous locomotion of biped characters in physics-based environments through reinforcement learning.

- **ENorm Reproducibility**   github.com/jeromepl/enorm-reproducibility

  Reproducibility study done on the ICLR 2019 paper "Equi-Normalization of Neural Networks". PyTorch implementation of a novel weight normalization technique. Submitted to the ICLR 2019 reproducibility challenge.