

CHRISTOPHER A. CHOQUETTE

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UNIVERSITY OF TORONTO, ST. GEORGE CAMPUS

Bachelor of Applied Science in Engineering Science, Major in Robotics

Toronto, ON

(September 2015 – June 2020)

CGPA: 3.7/4.0, Dean's List every semester

- Schulich Leaders *Full Scholarship* and 3 awards for academic excellence and leadership

Value: \$115,000

PUBLICATIONS, POSTERS, AND INVITED TALKS

Machine Unlearning

Bourtole, L. *, Chandrasekaran, V. *, Choquette-Choo, C. *, Jia, H. *, Travers, A. *, Zhang, B. *, Lie, D., Papernot, N. arXiv pre-print. *Equal contribution. Submitted to IEEE Symposium on Security and Privacy.

Adversarial Machine Learning: Ensuring privacy and security of ML models and sensitive data.

Presented at RE·WORK Responsible AI Summit 2019.

A multi-label, dual-output deep neural network for automated bug triaging.

Choquette-Choo, C., Sheldon, D., Proppe, J., Alphonso-Gibbs, J., Gupta, H. ^{In Review} International Conference on Machine Learning and Applications 2019. ICMLA 2019.

Invited talk

Automated generation of benchmark sets guided by a Bayesian decision maker.

Proppe, J., Stein, C., Gaudin, T., Hickman, R., Choquette-Choo, C., Head-Gordon, M., Aspuru-Guzik, A. ^{Oral Presentation + Paper} Molecular Quantum Mechanics Conference 2019.

EXPERIENCE

VECTOR INSTITUTE

Poster Presentation

Toronto, ON

Researcher; Machine Learning (Prof. Nicolas Papernot; Computer Engineering)

(2019 – Present)

- Creating black-box membership inference attacks to protect sensitive data used in training ML models.
- Exploring the effects of augmentations on overfitting and underfitting in computer vision.

Researcher; Machine Learning (Prof. Alan Aspuru-Guzik; Computer Science and Chemistry)

(2019 – Present)

- Using Bayesian models and active learning to predict molecule properties and accelerate drug exploration.

GEORGIAN PARTNERS LP (focus on applied AI, \$1.5B AUM over four funds)

Toronto, ON

Research Engineer, Machine Learning

(Summer 2019)

- Owned development of a differentially private ML model in collaboration with Google's top machine learning library TensorFlow/Privacy, which is used by ~900 people.
- Architected an open-source AutoML package that intelligently creates a tuned ML pipeline and model for any dataset, which is used by ~10 people since its release in Summer 2019.

INTEL CORP.

San Jose, CA

Researcher, Machine Learning

(2018 – 2019)

- Spearheaded the creation of an ML bug triager to assign bugs to the best engineers and teams globally.
- Productionized triager with an engineering efficiency improvement of ~25% and savings of >\$10M annually.
- Built an NLP-DNN model with a state-of-the-art 76% accuracy on 500+ teams and 55% on 2000+ engineers.
- Defined and analyzed product weaknesses (with VPs) to ensure successful external releases.

COMPETITIONS

Winner of Microsoft Machine Learning Comp. (20 teams); The Game, Engineering Comp. (of 10+ teams, \$10,000 prize)

PROGRAMMING

Proficient Languages: Python, C, Java, MATLAB

Familiar Languages: Assembly, Perl, SQL, Elasticsearch, JavaScript, Verilog

Proficient Python Libraries: NumPy, Pandas, Matplotlib, TensorFlow, Scikit-learn, PyTorch,

LEADERSHIP

Plan Canada

(2014 – 2017)

Board Advisor and member of Youth Advisory Council

University of Toronto

FoodSkrapp Startup

(2016 – 2017)

CEO and Founder

Toronto, Ontario

University of Toronto Consulting Association

(2017 – 2018)

Director of Volunteer Consulting Group

University of Toronto

ABOUT ME

Interests: avid rock climber, ex-model, ex-pro StarCraft player, cooking enthusiast, French (DELFB1) speaker