

PASCALE GOURDEAU

EDUCATION

DPhil (PhD) in Computer Science

2017 – Present

University of Oxford

Research themes: learning theory, robust learning, automata theory

Medical leaves: October 2019 – April 2020; October 2020 – April 2021

M.Sc. in Computer Science

2017

McGill University, Montreal

Thesis Title: *Bisimulation Pseudometrics for Weighted Finite Automata*

Overall GPA: 4/4

B.Sc. in Computer Science (Honours)

2012 – 2016

McGill University, Montreal

Minor in Mathematics

Overall GPA: 3.94/4

EXPERIENCE

University of Oxford

October - December 2018

Course Teacher and Marker

Oxford, UK

- Computational Learning Theory: Fall 2021
- Machine Learning: Fall 2018

Department of Computer Science, McGill University

2016 - 2017

Teaching Assistant

Montreal, Canada

- Programming Languages and Paradigms: Winter 2017
- Logic and Computation: Fall 2016
- Foundations of Programming: Summer 2016

Reasoning and Learning Lab, McGill University

Summers 2014 and 2015

Research Assistant

Montreal, Canada

- Summer 2015: automata theory research. Themes: minimization and approximation algorithms for automata, bisimulation metrics.
- Summer 2014: medical application of machine learning. Project: using machine learning classification algorithms to predict extubation readiness in extreme preterm infants.

DISTINCTIONS

Graduate Scholarship

2019

Awarded by Trinity College, Oxford for outstanding graduate research

Clarendon Scholarship

2017

Three and a half years of funding (tuition fees and living expenses) for the DPhil in Computer Science at the University of Oxford

Natural Sciences and Engineering Research Council (NSERC) Postgraduate Doctoral Scholarship

2017

Three years of funding for the DPhil in Computer Science at the University of Oxford

Natural Sciences and Engineering Research Council (NSERC) Graduate Scholarship *2016*
Funding for the M.Sc in Computer Science at McGill University

Anita Borg Memorial Scholarship *2015*
Scholarship from Google recognizing women's contribution and leadership in Computer Science and Software Engineering.

Natural Sciences and Engineering Research Council (NSERC) Undergraduate Student Research Award *2015*
Summer research funding in the Reasoning and Learning Lab at McGill University

Science Undergraduate Research Award *2014*
Summer research funding in the Reasoning and Learning Lab at McGill University

Full scholarship to attend Lester B. Pearson UWC *2010*
International boarding school network (United World Colleges) working towards peace and a sustainable future. Programme: International Baccalaureate (2 years)

PUBLICATIONS

1. P. Gourdeau, V. Kanade, M. Kwiatkowska, and J. Worrell, "On the hardness of robust classification," in *Journal of Machine Learning Research*, 2021.
2. B. Balle, P. Gourdeau, and P. Panangaden, "Bisimulation metrics and norms for real-weighted automata," in *Information and Computation*, 2020.
3. P. Gourdeau, V. Kanade, M. Kwiatkowska, and J. Worrell, "On the hardness of robust classification," in *33rd Conference on Neural Information Processing Systems (NeurIPS 2019)*, 2019.
4. B. Balle, P. Gourdeau, and P. Panangaden, "Bisimulation metrics for weighted automata," in *44th International Colloquium on Automata, Languages, and Programming (ICALP 2017)*, Schloss Dagstuhl-Leibniz-Zentrum fuer Informatik, 2017.
5. P. Gourdeau, L. Kanbar, W. Shalish, G. Sant'Anna, R. Kearney, and D. Precup, "Feature selection and oversampling in analysis of clinical data for extubation readiness in extreme preterm infants," in *2015 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, pp. 4427–4430, IEEE, 2015.