

Ryan Campbell

Department of Mathematics & Statistics
Lancaster University
Fylde Ave., Bailrigg, Lancaster
LA1 4YR

Webpage: www.ryanstats.com
Email: r.campbell3@lancaster.ac.uk

Research Interests

Multivariate extreme value theory and its applications, dependence modeling, stochastic processes, statistical computation.

Education

- 2021– PhD Statistics, Lancaster University
 Thesis: Statistical Exploits of New Insights for Multivariate Extremes
 Supervisor: Jennifer L. Wadsworth
- 2019–2020 MSc Mathematics & Statistics, McGill University
 Thesis: Deterministic Gaussian Averaged Neural Networks
 Supervisor: Adam Oberman
- 2015–2018 BSc Mathematics, McGill University

Research & Professional Activities

- **Internship at Desjardins General Insurance Group**
June–December 2020 (part-time), January–June 2021 (full-time)
- **Undergraduate Summer Research**
Department of Mathematics & Statistics, McGill University
Supervisor: Johanna Nešlehová
May–September 2018

Papers

Google Scholar: <https://scholar.google.com/citations?hl=en&user=xI10ohkAAAAJ>

Preprints

- [1] **R. Campbell**, C. Finlay, and A. M. Oberman. Adversarial Boot Camp: label free certified robustness in one epoch, 2020. URL <https://arxiv.org/abs/2010.02508>

- [2] **R. Campbell**, C. Finlay, and A. M. Oberman. Deterministic Gaussian averaged neural networks, 2020. URL <https://arxiv.org/abs/2006.06061>

Teaching Assistant

Lancaster University

Winter 2022	MATH456/556	Extreme Value Theory
Winter 2022	MATH235	Statistics II
Fall 2021	MATH330	Likelihood Inference

McGill University

Fall 2020	MATH208	Intro. to Statistical Computing
Fall 2019	MATH597	Topics in Applied Mathematics: Mathematics of Machine Learning
Fall 2019	MATH223	Linear Algebra

Languages & Skills

- Fluent in English and French.
- Proficient in Python (incl. PyTorch), R, Matlab, LaTeX, Java, HTML, Linux

Honours, Awards, and Funding

2021–2025	EPSRC Mathematical Sciences studentship (£15,609 per year)
2020	Mitacs internship at Desjardins (CAD \$13,000)
2019–2020	Master’s degree funding (CAD \$20,500)
2019–2020	McGill University Graduate Excellence Award (CAD \$3,400)
2018	Dr. Kenneth Davis Science Undergraduate Research Award (CAD \$6,500)

Extracurricular Activities

- **VP Finance**, Graduate Student Association for Mathematics and Statistics (GSAMS) McGill University
2019–2020 academic year.

- **Volunteer at the 2018 Statistical Society of Canada annual meeting**
Roles: Setting up audio-visual equipment for presentations and directing conference attendees to presentations.
Location: McGill University
3–6 June 2018