

DANIEL DEL ROSSO

Curriculum Vitae

Email: danny.delrosso@mail.utoronto.ca

Phone: (905) 926-8642

Address: 18 Coltbridge Ct., Scarborough, ON, M1M 2H8

LinkedIn: [Daniel Del Rosso](#)

Highly driven biostatistics graduate student and bioinformatician with a strong foundation in both molecular biology and statistical methods, including extensive experience in R and Bash. Experienced and passionate educator adept at communicating results, especially to clinicians and biologists.

EDUCATION

University of Toronto

2024-Present

Master of Science Candidate, Biostatistics

McMaster University

2020-2024

Bachelor of Health Sciences (Honours), Core Stream, *summa cum laude*

- Minor in Statistics
- Provost's Honour List x3 (GPA: 12.0/12.0), Dean's Honour List x4.
- Activities: Student Society Academic Coordinator, Health Sciences Musical Section Leader & Arranger, McMaster David Gerry Flute Choir Flutist, Orientation Week Representative Leader.

SKILLS

Proficient in **R, Python, Bash, SAS, LaTeX, Microsoft Office**. Experienced in delivering presentations, scientific writing, systematic reviews, and explaining statistical concepts to non-statisticians.

RESEARCH ACTIVITIES

Note: * Denotes equal contribution.

Bachelor of Health Sciences Poster Day

April 11, 2024

Undergraduate Thesis Poster Presentation, McMaster University, Hamilton, ON

Thesis title: Del Rosso D., Ali A., Biziotis O., Tsakiridis T. *The SGLT2 inhibitor canagliflozin as a multi-target antitumour agent: A pan cancer analysis.*

- <https://sites.google.com/view/poster-day-2024/home/room-11> (Poster 253)

Department of Medicine Research Day

April 26, 2022

Conference Presentation, Flamborough Hills Golf & Country Club, Hamilton, ON

Project Title: *Del Rosso D., *Guo K., *Cha C., Bhagirath V. *Methods of Assessing Efficacy of eHealth Interventions.*

Manuscripts Under Review and In Preparation

Project Title: Ali A, Biziotis O., Wang S., Pastena F., Del Rosso D., et al. *Canagliflozin as a Promising Anti-Androgen Treatment for Prostate Cancer.* [Abstract accepted to the McMaster University Center for Discovery of Cancer Research 2024 Symposium]

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Project Title: Tsakiridis E. E., Gautam J., Fayyazi R., Ahmadi E., Lally J., She H., Wang S., **Del Rosso D.**, et al. *Salsalate improves the Metabolic and Anti-tumor efficacy of Lenvatinib in Hepatocellular Carcinoma*. [Submitted to JHEP Reports]

Project Title: Gouveia A. G., **Del Rosso D.**, et al., *Geographical Disparities in Access to Radiotherapy in Brazil: An Observational Study*.
[Abstract accepted to the American Society for Radiation Oncology 2024 Annual Meeting]

WORK EXPERIENCE

Research Assistant, Tsakiridis Lab, Juravinski Cancer Center 2023-2024

- Assist laboratory members by performing bioinformatics analysis on data pertaining to various projects regarding metabolic therapies in prostate, lung, and liver cancer, with a special focus on generated **RNA-Seq data**.
- Design a pipeline using **Bash** to integrate the optimal tools for aligning and quantifying raw RNA-Seq data from human cell lines, mice, and tumour xenografts.
- Utilize statistical software such as the **R** packages developed by the **Bioconductor** project, and data manipulation packages such as those in the **tidyverse**.
- Design a user-friendly guide detailing step-by-step procedures for the analysis and visualization of RNA-Seq data in R to educate current and future members ([Example Page](#)).
- Perform elementary statistical analysis using R for clinical projects involving the shortfall of radiotherapy in Brazil.
- Effectively and clearly communicate results to those who do not have a rigorous statistics or informatics background, such as more biologically driven lab members.
- Assist in the development of a computational biology course (HTHSCI 3CP3) with an associate laboratory member through validating publicly available high-throughput sequencing datasets.

Teaching Assistant, Cell Biology and Anatomy & Physiology, McMaster University 2021-2024

- Designed and facilitated engaging tutorials to simplify complex concepts to 1st and 2nd year students. Ran cadaver laboratories, emphasizing confidentiality and proper specimen care.
- Crafted a series of biology-inspired programming questions in **python** for donation to a first-year computer science course ([Link](#)).

MCAT General Chemistry Instructor, The Princeton Review 2023-Present

- Deliver dynamic lessons to students preparing for the Medical Colleges Admissions Test.

AWARDS AND ACHIEVEMENTS

Bachelor of Health Sciences (BHSc) Summer Research Scholarship (\$2000 CAD) 2023

- Awarded to BHSc students with exceptional research proposals.

MedSprint Case Competition: First Prize (\$500 CAD) 2023

- Awarded to the team who proposes the best design solution to aid a given health problem.

Anne & Allen McKay Memorial Scholarship (\$1500 CAD) 2022

- Awarded to 5 students in the Faculty of Science or Health Sciences who attain high averages.

