

Michael Vincent Racanelli MSc.

Oakville ON | (+1) 519 281 1284

m.v.racanelli@gmail.com

[LinkedIn](#)

[GitHub](#)

EDUCATION

Data Science Certification

September 2022 – December 2023

University of Toronto/Waterloo

- Data analysis, statistics, visualization, and machine learning using Python

Master of Science, Thesis-based, Physiology/Pharmacology

September 2016 – October 2019

Western University, London, Ontario

- Examined YAP as a mediator of fibrotic activity and melanoma metastasis

Bachelor of Medical Science (Honours)

September 2011 - May 2016

Western University, London, Ontario

- Western University Scholarship of Excellence, 2011
- Dean's Honour List, 2013, 2016

WORK EXPERIENCE

Clinical Data Analyst, Contract Full-time

April 2023 – present

Bayer Inc, Mississauga, Ontario

- Explored patient data using jupyter notebooks on large data platforms such as Science @ Scale
- Built custom dashboards to display insights into patient data using Visualization libraries such as Streamlit, Panel, Bokeh
- Assisted in creation of data pipeline and documentation to map multiple databases to central SQL relational database

Scientific Analyst QA, Permanent Full-time

May 2022 – August 2022

BenchSci, Toronto, Ontario

- BenchSci uses AI to analyze preclinical research and provide a software platform to assist scientists plan successful experiments faster
- Supported and coordinated across multiple teams regular QA initiatives to assess platform quality and function with regular platform and data releases
- Collaborated to reform the manual QA process towards automated solutions in collaboration with the Software Quality team, providing scientific expertise for coding test cases
- Utilized a new QA platform and onboarded the team to a more refined QA process to improve testing, oversight, and bug reporting
- Leveraged scientific knowledge to perform Search Accuracy Testing to assess platform accuracy with each data release, and in collaboration, formulated a plan to automate this testing process

Local Study Associate, Contract Full-time

February 2020 – April 2021

Bayer Inc, Mississauga, Ontario

- Managed Bayer Sponsored and Investigator Sponsored Medical Research studies according to global guidelines and regulations (ICH-GCP), specialized in Oncology and Hematology

- Worked with Canadian investigators and research institutions to ensure compliance and oversight of study progression, financials and study milestones
- Assisted study sites to resolve queries and questions about Bayer and ICH policies and procedures as well as data entry into our Electronic Data Capture (EDC) systems and Case Report Forms (eCRFs)
- Optimized financial oversight for the team using available Veeva-based platform reports and Excel pivot-tables, presented at monthly department meetings
- Managed requests for special access to un-marketed Bayer Products leveraging Health Canada's Special Access Program (SAP)

Laboratory Research Assistant and Thesis Student

September 2016 – June 2019

Laboratory of Dr. A. Leask, London, Ontario

- Trained in laboratory safety and hazardous waste management, WHIMIS, and Biosafety
- Worked with *in vitro* and *in vivo* models of fibrotic disease
- Experience with techniques such as cell culture, electrophoresis, qPCR, microarray analysis, Western blot, immunocytochemistry, immunohistochemistry, tamoxifen-induced gene knockout animal models, data statistical analysis and generation of figures
- Supported by major Arthritis Society grant, worked to assess the activity of YAP1 as a promoter of fibrosis, and to assess the ability of a YAP1 inhibitor to prevent the fibrotic phenotype
- Also contributed to other research projects involving the promotion of melanoma metastasis in a fibrotic microenvironment

Teaching Assistant, Physiology/ Pharmacology Lab Course

September 2017 – April 2018

Western University, London, Ontario

- Guided undergraduate students through various physiological experiments including cell work and animal dissection
- Evaluated and provided feedback on student papers and examinations

Dental School Simulation Clinic Supervisor

December 2016 – February 2018

Schulich School of Medicine and Dentistry, London, Ontario

- Supervised after hours practice clinic for Doctor of Dentistry candidates

Collection Clerk, Financial Services

May 2015 – August 2015

Bayer Inc., Mississauga, Ontario

- Accountable for the collection, documentation, and deposit of all purchase payments to Bayer Inc. from customers across Canada
- Responsible for contacting customers with overdue payments, and assisting them with payment and completion of financial transactions
- Assisted customers by responding to frequently asked questions surrounding invoice payment

Medical Operations Business Associate

May 2013 – August 2013

GlaxoSmithKline, Mississauga, Ontario

May 2012 – August 2012

- Collected Medical Affairs department metrics, leveraging Microsoft excel and estimated workload projections for roles within the Medical Affairs department
- Revised and redesigned the Medical Affairs intranet website using Microsoft Sharepoint

- Planning committee member that planned and executed an annual cross-departmental Medical Affairs full-day event

PUBLICATIONS

Shi-Wen, X., Racanelli, M., Ali, A., Simon, A., Quesnel, K., Stratton, R. J., & Leask, A. (2021). **Verteporfin inhibits the persistent fibrotic phenotype of lesional scleroderma dermal fibroblasts**. *Journal of cell communication and signaling*, 15(1), 71–80.
<https://doi.org/10.1007/s12079-020-00596-x>

Racanelli M, **YAP-mediated mechanotransduction promotes fibrotic activity** (2019). *Electronic Thesis and Dissertation Repository*. 6283. <https://ir.lib.uwo.ca/etd/6283>

Hutchenreuther, J., Vincent, K., Norley, C., Racanelli, M., Gruber, S. B., Johnson, T. M., Fullen, D. R., Raskin, L., Perbal, B., Holdsworth, D. W., Postovit, L. M., & Leask, A. (2018). **Activation of cancer-associated fibroblasts is required for tumor neovascularization in a murine model of melanoma**. *Matrix biology : journal of the International Society for Matrix Biology*, 74, 52–61.
<https://doi.org/10.1016/j.matbio.2018.06.003>

LICENSES & CERTIFICATIONS

| | |
|-------------------------------------------------------------------------------------|----------------|
| Data Science Certification <i>University of Waterloo/Toronto</i> | December 2023 |
| Machine Learning, Data Science and Deep Learning with Python <i>Udemy</i> | November 2021 |
| Complete Python Developer in 2021: Zero to Mastery <i>Udemy</i> | September 2021 |
| Study Designs in Epidemiology <i>Coursera</i> | January 2021 |
| AI for Everyone <i>Coursera</i> | November 2019 |

VOLUNTEER EXPERIENCE

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Health Partners International of Canada <i>Mississauga, Ontario</i> | July 2014 |
| <ul style="list-style-type: none"> • Reworked the warehouse floor, creating a new system of organizing medical supplies • Prepared and packaged Physician Travel Care Packs and Mother and Child Care Packs to be sent to physicians providing medical services around the world | |

INTERESTS

Machine Learning

- Passionate about how deep learning with big data is changing every industry

Rock Climbing

- Current best grades are V6 on bouldering and 12 on top-rope

Building Computers

- Built multiple high-performance personal computers with extensive knowledge of consumer and professional products including Intel, AMD, NVIDIA, and custom water-cooling

Music performance

- Saxophone section-leader in Loyola High School concert and jazz bands
- Award-winning pianist and multi-instrumentalist