Michael Racanelli MSc.

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Published Medical Scientist and certified Data Scientist with two years experience working as a member of a global oncology clinical data analytic team for a major pharmaceutical corporation. Years of experience working in other pharmaceutical functions including Clinical Research, Medical Affairs and Clinical Data Analytics. Strong translational skills to unify medical domain knowledge with developer operations and communication skills to convey complex concepts to a broad audience.

EDUCATION

Certification of Data Science   *University of Toronto/University of Waterloo – 2023*
Master of Medical Science   *Western University – 2019*
Bachelor of Medical Science (Honours)   *Western University* – 2016

SKILLS

Development – Python, R, SAS, Git, Bash
Data Management – Pandas, Pyspark, Jupyter Notebooks/Databricks, Azure Data Factory
Interactive Dashboards – Shiny, Streamlit, Bohek, Plotly, PowerBI
Machine Learning –Scikit-Learn, TensorFlow, Keras, LLM API integration

WORK EXPERIENCE

Clinical Data Analyst, Full-time – Current Role   *April 2023 – Present*
Bayer Inc, Mississauga
- Built, deployed, and maintained custom dashboards to visualize patient data, using internal APIs to empower users to design their own plots using Large Language Models
- Manage and transform data using Pyspark within data pipelines, collaborating with a global team to power visual dashboards used for clinical decision-making
- Created interactive documentation/ tutorials for internal oncology data pipeline to create a SQL database used in drug submissions to health authorities that identifies on and off target genetic mutations

Scientific Analyst QA, Permanent Full-time   *May 2022 – August 2022*
BenchSci, Toronto, Ontario
- Supported and coordinated across multiple teams regular QA initiatives and onboarding with new QA software to assess platform quality and function with each platform and data release
- Provided scientific expertise for coding test cases and bug reporting in collaboration with software QA team

Local Study Associate, Contract Full-time   *February 2020 – May 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

WORK EXPERIENCE continued

Laboratory Research Assistant and Thesis Student   *September 2016 – July 2019*
Laboratory of Dr. A. Leask, London, Ontario

Teaching Assistant, Physiology/ Pharmacology Lab Course   *September 2017 – May 2018*
Western University, London, Ontario

Dental School Simulation Clinic Supervisor   *December 2016 – March 2018*
Schulich School of Medicine and Dentistry, London, Ontario

Collection Clerk, Financial Services – Summer Student   *May 2015 – September 2015*
Bayer Inc., Mississauga, Ontario

Medical Operations Business Associate – Summer Student   *May 2013 – September 2013*
GlaxoSmithKline, Mississauga, Ontario   *May 2012 – September 2012*

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, (2019). **YAP-mediated mechanotransduction promotes fibrotic activity.** *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   *December 2023*
University of Waterloo/Toronto
Machine Learning, Data Science and Deep Learning with Python   *November 2021*
Udemy
Complete Python Developer in 2021: Zero to Mastery   *September 2021*
Udemy
Study Designs in Epidemiology   *January 2021*
Coursera
AI for Everyone   *November 2019*
Coursera