Vassil Dimitrov, PhD

DATA SCIENTIST | MOLECULAR BIOLOGIST IMMUNOLOGIST

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PROFILE

As result-oriented researcher in the health sciences, my exposure to genomic data science led to a transformative journey towards making data science my career and passion. The diverse skillset I developed in research – critical thinking, clear communication, collaboration, research, presentation and documentation – is naturally applicable to any data science project. I am keen to leverage my experience, skills, superior research abilities and cutting-edge tools to provide data-based concrete and actionable solutions to complicated problems.

SKILLS

Python, R, SQL, Hypothesis Testing, A/B Tests, Parametric and Non-Parametric Tests, Tableau, Machine Learning and scikit-learn, RNN, CNN, Reinforcement Learning, TensorFlow, Keras, Pytorch, Hadoop, Spark, Hive, Docker, Linux/Unix, Shell Scripting, Excel, Pathway Analysis, GSEA, CRISPR Screens, Single-Cell RNA-seq, CAR-T Cell Production, Flow Cytometry, Cloning, PCR, ELISA, Microscopy, NGS

EXPERIENCE

Research Fellow | SickKids
SEP 2022 - 2023, TORONTO, ON

- Demonstrated leadership, critical and creative thinking by directing a team of 3 to perform CRISPR screens, analyze high-throughput data and discover new biology in immune-mediated cancer killing.

Postdoctoral Researcher | University of Toronto | Empirica
NOV 2019 - 2022, TORONTO, ON

- Showcased ability to work in a diverse, multi-centre, multi-discipline team to complete pre-clinical trials for CAR-T glioblastoma immunotherapy.

Postdoctoral Researcher | McGill University
JUL 2018 - 2019, MONTREAL, QC

- Architected and deployed on Compute Quebec clusters a high-throughput transcriptomic data analysis pipeline to discover more than 4 novel mechanisms of actions of vitamin D.
- Led a group of 3 researchers to validate findings, publish 2 peer-reviewed papers and establish efficient shared digital lab book that enhanced transfer of knowledge and resource management.

EDUCATION

BrainStation | Diploma, Data Science
APR 2023 - JUN 2023, TORONTO, ON

McGill University | PhD Physiology, Molecular Biology
JAN 2012 - 2018, MONTREAL, QC

- 2 Graduate Excellence Awards, Winner of Gradiate Research Day and of 22nd Vitamin D Workshop, 10^+ publications

McGill University | MSc Experimental Medicine
JAN 2009 - 2012, MONTREAL, QC

- 2 publications in peer-reviewed journals

McGill University | BSc Microbiology & Immunology
AUG 2005 - 2008, MONTREAL, QC

PROJECTS

Lead Data Scientist | Data Deposit Box
JUN 2023, HACKATHON WITH MICROSOFT

- Collaborated with UX designers and software engineers to conceptualize and build a *data deposit box* allowing for anonymized data analysis.

Data Scientist | Prediabetes Incidence Prediction
JUN 2023, SCHOOL

- Architected and optimized inferential and predictive machine learning and deep learning models for prediabetes incidence based on medical records.