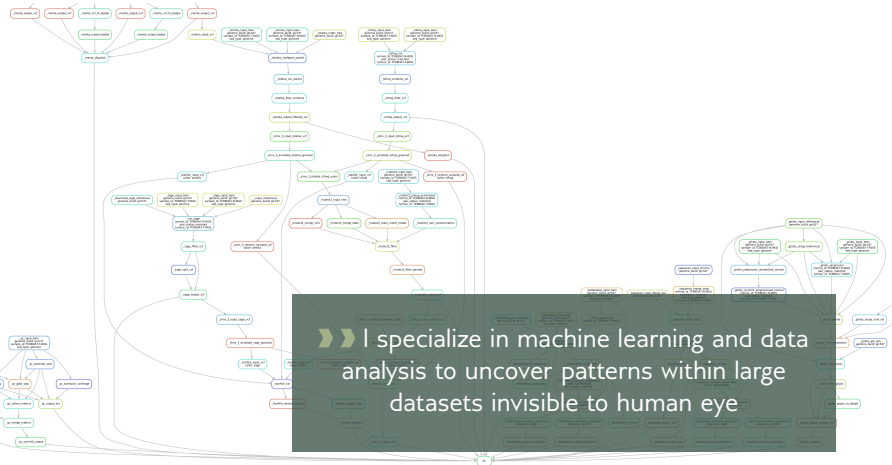


# KOSTIANTYN DREVAL



## SUMMARY

Clinical oncogenomics intersecting Data Science, Software Engineering, and Bioinformatics

## EXPERIENCE

### Staff Scientist I @ BC Cancer

Vancouver, BC, 09/2023 - Present

- Design and deploy advanced machine learning models into production
- Conduct software engineering to analyze complex high-dimensional datasets
- Manage complete data science workflow from data engineering to model deployment
- Oversee the integration of new datasets into existing pipelines and databases
- Implement bioinformatics software and scripts with workflow management systems
- Review project specifications and design solutions exceeding performance expectations

### Research Associate @ BC Cancer

Vancouver, BC, 09/2021 - 09/2023

- Engineer software solutions for the analysis and front-end access to large datasets
- Develop and optimize machine learning models within big data pipelines
- Design SQL databases and R-based software for efficient data retrieval
- Design reproducible computational workflows for genomic analyses
- Conduct code reviews and managed version control using GitHub
- Provide training and mentorship to new recruits and junior team members

### PostDoctoral Fellow @ Simon Fraser University

Burnaby, BC, 09/2020 - 09/2021

- Develop software solutions for reproducible bioinformatics workflows
- Design and implement computational analyses for large-scale datasets
- Execute data engineering tasks to collect and analyze extensive genomic datasets
- Analyze existing software to update codebases and improve functionality

### PostDoctoral Research Fellow @ University of New Mexico

Albuquerque, NM, 09/2017 - 06/2020

- Conduct comprehensive analyses of extensive public datasets of multiomics data
- Design and implement experimental protocols in the wet lab
- Develop software for the analysis of chromatin immunoprecipitation assays

### ORISE PostDoctoral Fellow @ U.S. Food and Drug Administration

Little Rock, AR, 06/2015 - 08/2017

- Conduct in-depth analyses of gene expression and DNA methylation datasets
- Design and executing experimental protocols in the wet lab

## EDUCATION

### Certificate in Regulatory Science

Little Rock, USA, 8/2016 - 06/2017

### PhD in Biotechnology

Ukraine, 11/2009 - 05/2012

## WHO?

My GitHub: Kdreval

My Publications

My LinkedIn

## WHERE?

Port Coquitlam, BC, Canada

@ k.dreval@gmail.com

## WHAT?



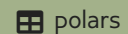
</> perl



Tensorflow/scikit-learn



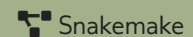
pandas/numpy



Linux/bash



Conda/Mamba



## WHY?

Software Engineering Data Science  
Large datasets Machine learning  
Data management Version control  
Databases Reproducibility

## HOW?

</> VS Code & Git

</> Terminal </> Quarto