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# Asim Datye

## Data Scientist / Biostatistician

[linkedin.com/in/asimdatye](https://www.linkedin.com/in/asimdatye)

My personal goal is to work in a company where data informs every important decision from R&D to commercialization. Having worked on academia and in the pharmaceutical industry, I have a good understanding of the drug development pipeline from discovery to submission. I hope to bring this experience to fruition in an industry role in healthcare consulting, pharma or public health.

### SKILLS

<b>Tools and Languages</b>	R/RShiny/RMarkdown, Python, Jupyter Notebooks, SAS, SQL, Google Cloud Platform, Git
<b>Quantitative Research</b>	Survival Analysis, Clinical Trial Design, Regression Techniques, Machine Learning

### TECHNICAL EXPERIENCE

<b>MANUFACTURING DATA SCIENTIST</b>	<b>FEB 2022 — Present</b>
<i>Hoffmann-La Roche / Genentech</i>	<i>Toronto, Ontario</i>

- Built & tested ML models in Python/GCP (random forest, lin. reg, xgboost) improving yield by 2% equivalent to \$3M product/year
- Identified drivers of higher drug potency and purity using a combination of lasso, multi-target regression in Python

<b>STUDY STATISTICIAN</b>	<b>MAY 2019 — Present</b>
<i>Hoffmann-La Roche / Genentech</i>	<i>Toronto, Ontario</i>

- Designed protocols, statistical analysis plans for pivotal trials, advising clinical colleagues in solid tumor oncology and immunology
- Led Data Sciences (biostatistics, data management, statistical programming) teams to deliver key clinical trial results to FDA/EMA, safety monitoring committees, and conferences
- Discovered a link between baseline patient-reported outcomes & survival in Non-Hodgkin's Lymphoma, publishing results in AACR/Cancer Medicine
- Provided statistical expertise & programmed an RShiny dashboard for Bayesian dose escalation in early phase pediatric studies

<b>LECTURER</b>	<b>APR 2021 — MAY 2021</b>
<i>Bay River College</i>	<i>Remote</i>

- Taught biostatistics principles to students interested in clinical research, created and graded assignments

<b>DATA CURATOR</b>	<b>DEC 2018 — MAY 2019</b>
<i>Ontario Neurodegenerative Disease Research Initiative (ONDRI)</i>	<i>Toronto, Ontario</i>

- Eliminated 50% of manual cleaning, curating and packaging of retinal images from Heidelberg machine by using R

<b>STATISTICAL SUPPORT</b>	<b>OCT 2018 — MAY 2019</b>
<i>Baycrest Rotman Research Institute</i>	<i>Toronto, Ontario</i>

- Developed an ML diagnostic tool to predict dementia diagnosis achieving a maximum accuracy of 70%

### EDUCATION

<b>Master of Science in Biostatistics, University of Toronto</b>	2019
<b>Bachelor of Applied Science in Chemical Engineering, University of Toronto</b>	2018
<i>Summer Research Semester, National University of Singapore</i>	2015
<i>Dean's Admission Scholarship, University of Toronto</i>	2013

### ACTIVITIES

Founder & Co-President, Skule Badminton Club	2013-2018
Co-President, Galbraith Society	2014-2018