DATA ANALYSIS FOR MOLECULAR BIOLOGY AND BIOCHEMISTRY

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Introductory data analysis focusing on molecular biology data sets and examples and including basic programming skills using Python and basic statistics skills using R. Prerequisite: MATH 12 or equivalent is recommended. Students with credit for MBB 243 may not take this course for further credit. CMPT 120 will be accepted in lieu of MBB 110.

TOPICS

* Flavours of data in molecular biology and biochemistry
* Genomic data
* Fundamentals of R and Python
* Regular expressions and patterns
* Quantitative DNA/RNA sequence analysis
* Exploratory data analysis in the Tidyverse
* Generic visualization methods using ggplot2
* Advanced visualizations for molecular biology

INSTRUCTORS

Sophie Sneddon Ryan Morin

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*Photograph may not be up to date*

*Bioinformatician, video game enthusiast, and cat person*

Calendar

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Table

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