

UWMDI Data Science Workshop Series

Winter & Spring 2026

Build Your Research Skills with Hands-On Training

Open to All Researchers • Hybrid Format

Lecture 9am-10am | Practical/Lab 10am-11am | Location: F106 or Zoom

Date	Topic	Instructors
Wed, Feb 4	Introduction to Coding in R	T. Vigers/H. Hampson
Wed, Feb 18	Introduction to Coding in Python	T. Vigers/S. Ramesh
Wed, Mar 4	Introduction to Biostatistics	L. Pyle/H. Hampson
Wed, Mar 18	Big Data & Multi-Omics	M. D'Antonio/H. Hampson
Tues, Apr 7	Single-Cell RNAseq	M. D'Antonio/H. Hampson
Tues, Apr 21	Data Analysis for Genetics	M. D'Antonio

Course Descriptions

Introduction to Coding in R: Fundamentals of R programming with hands-on experience in essential tools for data analysis and reproducible research.

Introduction to Coding in Python: Fundamentals of Python programming with hands-on experience in essential tools for data analysis and reproducible research.

Introduction to Biostatistics: Key statistical concepts and methods including t-tests, linear and logistic regression, and power calculations with hands-on practice.

Big Data & Multi-Omics: Analysis of large-scale omics datasets (metabolomics, proteomics, lipidomics, transcriptomics, spatial and imaging data) with hands-on experience in quality control, preprocessing, and analysis.

Single Cell RNAseq: Principles and analysis of single cell transcriptomics, including data processing, analysis and interpretation of differential gene expression.

Data Analysis for Genetics: Genetic analysis using real-world data, covering approaches for integrating large-scale genomic datasets with clinical and population-level data.

Questions? Contact: lpyle@uw.edu

Want to Register?

Scan the QR code or visit the link below



<https://redcap.iths.org/surveys/?s=3CRPRDXCPP3WC3F8>

Space is limited - register early!