



UNIVERSITY
of HAWAII®
MĀNOA



Department of Quantitative Health Sciences



DATA SCIENCE WORKSHOPS

March 9-11, 2022

9:00am to 12:00pm, HST

Virtual workshops

Presenters:

Dr. Youping Deng, Professor

Dr. Vedbar Khadka, Assistant Professor

Dr. Yujia Qin, Bioinformatics Data Scientist

Dr. Hyeong Jun Ahn, Assistant Professor

Department of Quantitative Health Sciences

John A. Burns School of Medicine

University of Hawai'i at Mānoa

R programming for Data Science

9:00 am – 12:00 pm, HST

March 9th, 2022

- Introduction and getting started with R
- Programming with R
- Simple exploratory analysis
- Hands-on walkthrough training

DNA Methylation and Whole-Genome Bisulfite Sequencing Data Analysis

9:00 am – 12:00 pm, HST

March 10th, 2022

- Introduction to DNA methylation, DNA methylation assays, Whole-genome bisulfite sequencing (WGBS)
- WGBS data analysis workflow: methylation level extraction, differential methylated regions (DMRs) detection
- Hands-on practice

Common Pitfalls in Statistical Analysis

9:00 am – 12:00 pm, HST

March 11th, 2022

- Theory and basic concepts of probability, variables, and distribution
- Common pitfalls in descriptive/univariate/bivariate/multivariable analysis
- Multiple testing issue and solution
- Hands-on practice using R

Free Registration @

<https://forms.gle/csiBi5o9CRd7gBCj>

Please complete the registration form above. There are a limited number of spots available. ZOOM link will be provided one day before the workshop. For questions, please email: bioinf@hawaii.edu



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