

THE INDIANA UNIVERSITY O'BRIEN CENTER
PRESENTS

FROM BASIC INFORMATICS TO MACHINE LEARNING:

A hands-on, interactive tutorial to harness the power of kidney
single cell and spatial transcriptomics data

Please [CLICK HERE](#) to register and join us

MONDAY- DEC 2, 2024


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TUESDAY- DEC 3, 2024

FROM 11:00AM- 3:00PM EST

DAY 1

DAY 2

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- 1) Intro to single-cell multi-omics and spatial transcriptomics
 - 2) Intro to biological analysis of the kidney **(HANDS ON)**
 - 3) Localizing cells within spatial niches **(HANDS ON)**

- 1) Use ChatGPT and machine learning in single-cell studies
- 2) scRNA-seq model training using svGNN 3.0 and ChatGPT **(HANDS ON)**
- 3) Single-cell multiome analysis using DeepMAPS **(HANDS ON)**
- 4) Spatial variable gene expression **(HANDS ON)**

Sponsored by:



R01 DK138504 & DK137328

Speakers include:

- | | |
|---|-----------------------------------|
| Juexin Wang, PhD (Indiana Univ) | Mingyao Li (Univ of Pennsylvania) |
| Qin Ma, PhD (The Ohio State Univ) | Dong Xu (Univ of Missouri) |
| Ricardo Melo Ferreira, PhD (Indiana Univ) | Michael Eadon, MD (Indiana Univ) |