

Combi Seminar

Wednesday, 11.10.21 | 1:30

held remotely: <https://depts.washington.edu/gstrestrc/remote.htm>



Dr. James Zou

Stanford University

“Computational Models for Spatial Omics”

Abstract:

Spatial biology is an exciting field that studies the organization and interaction of cellular neighborhoods in the original tissue context. I will overview several recent experimental methods for generating spatially resolved omics (e.g. spatial transcriptomics and CODEX). Then we will discuss emergent opportunities to computationally model spatial data to link tissue morphology with molecular variation and to identify spatial motifs associated with diseases.

Bio:

James Zou is an assistant professor of biomedical data science and, by courtesy, of CS and EE at Stanford University. James' group develops machine learning algorithms to tackle biomedical and healthcare challenges. Several of their tools are deployed at Stanford Medicine, biotech and tech companies. They also work on improving the broader impact of AI by making models more reliable, transparent and fair. James has received a Sloan Fellowship, NSF CAREER Award, Chan-Zuckerberg Investigator award, faculty awards from Google, Tencent and Amazon, and several paper awards at top CS venues including the 2019 RECOMB Best Paper.

Questions? Contact Brian Giebel at bgiebel@uw.edu or visit the Combi website at <http://www.gs.washington.edu/news/combi.htm>

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