



**Lunenfeld-Tanenbaum
Research Institute**
Sinai Health System



UNIVERSITY OF
TORONTO

Principal Investigator Candidate Seminar Series For Data Science and Health Research

Dr. Wanding Zhou

*Postdoctoral Fellow, Van Andel Research Institute
Grand Rapids, MI*

Title:

What Do We Lose from Getting Old? - Towards a Better Understanding of DNA Methylation Loss in Normal and Cancer Cells.

Tuesday January 29th 10:00a.m.

**Location: Cooper Centre, Level 3
60 Murray Street, 3rd floor**

Host: Dr. Steve Lye

Wanding Zhou is currently a Bioinformatics Postdoctoral Fellow at Van Andel Research Institute. He received his Ph.D. in Bioengineering from Rice University in 2013. Over the past ten years, Wanding has worked on a diverse range of bioinformatics topics including, but not limited to, integrating multi-omics data to study DNA methylation alterations in cancer, analyzing structural variations in cancer genomics, annotating somatic mutations for clinical use, and reconstructing the evolutionary history of microbial metabolism. He spearheaded the identification of DNA methylation loss as a mitotic clock in mammalian cells. He is the lead author of multiple bioinformatics tools including TransVar, BISCUIT, and SeSAmE. He has also been leading the DNA methylation data analysis and leukocyte estimate as a member of the Cancer Genome Atlas and the Genomic Data Analysis Network. Two of his outstanding research interests are age-related DNA methylation loss and finding cell-type defining epigenetic modifications.