

# GENETICS, BIOINFORMATICS, AND SYSTEMS BIOLOGY COLLOQUIUM

THURSDAY FEBRUARY 10  
12:00PM PST

ON ZOOM!

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PASSWORD: **GENOME**

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## JESSE ENGREITZ, PHD

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### "MAPPING THE REGULATORY WIRING OF THE GENOME TO UNDERSTAND HEART DEVELOPMENT AND DISEASE"

Genome-wide association studies have identified thousands of noncoding loci that are associated with human diseases and complex traits, each of which could reveal insights into mechanisms of disease. Many of the underlying causal variants affect enhancers, but we have lacked accurate maps of enhancers and their target genes to interpret such variants.

In this talk, I will present our recent work to develop CRISPR tools and predictive models to understand the mechanisms of enhancer-promoter communication and link noncoding variants in enhancers to their molecular targets.