

VERITY 2021 Course on Bioinformatics in Clinical Data

Course Directors: Katherine Liao, MD, MPH, and Tianxi Cai, ScD

Course Faculty: Tianrun (Austin) Cai, MD, and Xu Shi, PhD

	Time*	Topic	Faculty
Session 1 Wednesday, June 9	2:00-2:10PM	<i>Welcome and Introductions</i>	Katherine Liao & Tianxi Cai
	2:10-2:25PM	<i>Intro to the mini-course: EHR, NLP, and ML</i>	Katherine Liao
	2:25-3:00PM	<i>Intro to Natural Language Processing (NLP)</i>	Austin Cai
	3:00-3:55PM	<i>Electronic Health Records (EHR) Phenotyping</i>	Xu Shi
	3:55-4:00PM	<i>Wrap-Up</i>	Katherine Liao & Tianxi Cai
Session 2 Wednesday, June 16	2:00-2:15PM	<i>Introduction: Clinical Studies using EHR and where Machine Learning (ML) can Help</i>	Katherine Liao
	2:15-3:10PM	<i>Different ML Approaches to Performing Clinical Studies with Noisy EHR Data</i>	Tianxi Cai
	3:10-3:50PM	<i>What is possible with NLP? Numeric Extraction & Note Ranking</i>	Austin Cai
	3:50-4:00PM	<i>Wrap-Up</i>	Katherine Liao & Tianxi Cai

*Please note that all times are listed in EST.