

EECS 498 - Modeling Human Behavior – Winter 2019

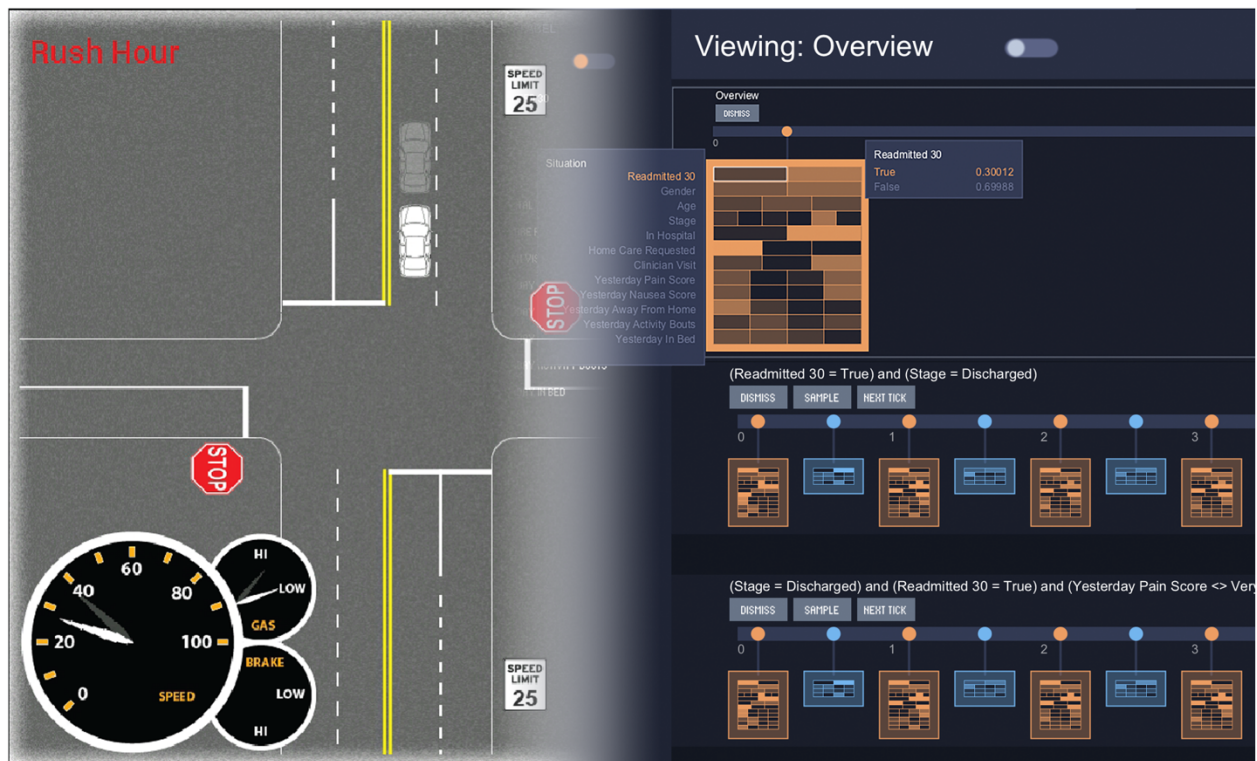
Instructor: Nikola Banovic (<http://www.nikolabanovic.net>)

Time and Location: Lecture TTh 9-10:30AM (EWRE 104); Discussion W 6-7PM (DOW 1018)

Optional Textbook: [Computational Interaction. Oxford University Press, 2018](#)

This course will teach students methods to track, collect, and express human behavior data as computational models of behavior. The course will have a particular focus on computational approaches to describe, simulate, and predict human behavior from empirical behavior traces data. It will contrast computational modeling with other methodologies to understand human behavior and compare computational modeling with existing behavior modeling methodologies in Human-Computer Interaction (HCI). Short individual assignments will give students exposure to existing modeling methods in HCI. Large, group-based final project will give students an opportunity to push the boundaries of computational modeling in HCI by modeling behaviors of their choice from an existing data set to design and implement a novel Computational Modeling system from scratch.

Prerequisites: EECS 281 and (EECS 370 or EECS 376) or permission from instructor



Computational Modeling in HCI enables novel systems that range from coaching aggressive drivers to be safe in traffic (left) to helping clinicians simulate and predict patients' healthcare outcomes (right).