## Mathematical Modeling in Health Sciences When Models Meet Data

October 1, 2014 noon to 6:00 PM HESB 2600, Overflow HSEB 2928

Keynote Speaker: Randall C. Wetzel, MD, MB

Children's Hospital Los Angeles , USC Keck School of Medicine

**Objective:** The objective of this half-day summit is to facilitate collaborations between mathematicians, computer scientists, statisticians, and basic and clinical researchers in the health sciences.

**Format:** Talks describing critical areas within medicine where modeling has been used or may be used to advance patient care will be given by speakers from both outside of and within the University of Utah. The talks are intended to be illustrative and to launch discussion. In addition to formal talks, we will have breakout sessions for face-to-face discussions about potential collaborations as well as discussions about strategies for teaching modeling in the health sciences. A lightning talks session will provide participants an opportunity to describe a method or problem they are interested in. A poster session and reception will conclude the summit.

## Schedule of Events

11:50-12:00	Lunch will be served	
12:00-1:00	Randall C. Wetzel, MD, MB USC Keck School of Medicine Keynote speaker	Healthcare - What is the big deal about big data: Adventure in the ICU
1:00 - 1:35	Alla Borisyuk, PhD University of Utah	Shaping temporally structured responses in the olfactory bulb: role of circuitry components
1:35 - 2:10	Scott M. Stevens, MD University of Utah/IHC	The role of modeling in the Diagnosis and Prevention of Venous Thrombosis: Current Clinical Use and Limitations
2:10 - 2:25	Break	
2:25 - 3:00	Robert El-Kareh, MD, MS, MPH University of California, San Diego	Improving our treatment of infections: Making "empiric antibiotics" more empirical
3:00 - 3:40	Lightning Talks	2-3 minute presentations of problems of interest
3:40 - 3:50	Break	
3:50 - 4:30	Collaboration and Training Breakout session	Discuss potentials for research collaborations and training opportunities at the medical school
4:30 - 5:00	Fred R. Adler/Brian E. Chapman	Wrap Up: Key points and Opportunities
5:00 - 6:00	Reception and Poster Session	
RSVP here: http://tiny.cc/mathmodel		回就通回 整約時時 回波開始

**Summit Organizers:** Frederick R. Adler, PhD, Brian E. Chapman, PhD. Funding for this summit was provided by the Department of Biomedical Informatics and the NSF-DMS funding for the RTG in Mathematical and Computational Biology