Theory and design in health

Lena Mamykina, Ph.D.
Department of Biomedical Informatics,
Columbia University
Theory in design

- Theories are foundational to design
- Applying theories to design requires a leap of creativity
- Theories as inspiration for design
Question 1

- How do researchers appropriately identify and map theory to design, implementation, and evaluation, specifically in a health disparity context?
Example of theory to design

- Using self-determination continuum to develop different levels of incentives for self-monitoring in health

Example of theory to design

Financial incentives

Feedback from clinicians

Using data to make decisions
Question 2

- How do the data that sociotechnical systems collect impact theory to help address health disparities? How do we negotiate the dosing of sociotechnical systems from what is clinically needed to what health disparity populations are willing to use?
Psycho-social phenomenologies

Salient characteristics:
- Financial Problems
- Family Health Stress
- Own Health Stress
- Medicaid
- Low Health Literacy