

CS 188 SECTION 9

ABOUT ME

- Daylen Yang
- daylen@berkeley.edu (but use Piazza!)
- Sections MW 4-5pm in 310 Soda
- Office Hours Thursdays 4-6pm in 411 Soda

UPCOMING DEADLINES

- HW 4 due **tonight** @ 11:59
- Project 4 due this **Friday** 7/22 @ 5pm
- Midterm 2 **in 7 days** on 7/27

VPI

$$\text{VPI}(E' | e) = \mathbb{E}_{e'|e} [\text{MEU}(e, e') - \text{MEU}(e)] = \left(\sum_{e'} P(e' | e) \text{MEU}(e, e') \right) - \text{MEU}(e)$$

- Nonnegative

$$\forall E', e : \text{VPI}(E' | e) \geq 0$$

- Nonadditive

(think of observing E_j twice)

$$\text{VPI}(E_j, E_k | e) \neq \text{VPI}(E_j | e) + \text{VPI}(E_k | e)$$

- Order-independent

$$\begin{aligned} \text{VPI}(E_j, E_k | e) &= \text{VPI}(E_j | e) + \text{VPI}(E_k | e, E_j) \\ &= \text{VPI}(E_k | e) + \text{VPI}(E_j | e, E_k) \end{aligned}$$

WORKSHEET