




# GETTING TO KNOW ARIEL PROCACCIA

# TIMELINE: THE MSR PERSPECTIVE

- 2004-2008: Hebrew U grad student
- 2008-2009: MS Israel R&D Center postdoc
- 2009-2011: Harvard postdoc (Center for Research on Computation and Society)
- 2011-now: CMU CSD asst prof



# THINGS I'M EXCITED ABOUT THESE DAYS 1: SOCIAL CHOICE FOR HUMAN COMPUTATION

- Social choice is hard to apply to political elections
- Human computation systems provide a perfect testbed
- Example: **EteRNA** → 
- Some challenges:
  - Which voting rule to use? [w. Shah and Reddy]
  - Does it really matter? [w. Mao and Chen]



# THINGS I'M EXCITED ABOUT THESE DAYS 2: RESOURCE ALLOCATION IN DATA CENTERS

- Multiple homogeneous resources (CPU, RAM,...)
- Users have heterogeneous demands that are assumed to be “proportional”
- Goal: design mechanisms that satisfy properties such as envy-freeness and strategyproofness [w. Parkes and Shah, EC'12]
- Challenges:
  - Dynamic fair division
  - From theory to practice

