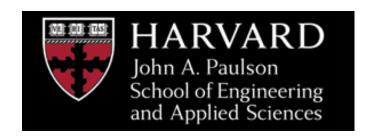- Computer Science, John A. Paulson School of Engineering and Applied Sciences

- Harvard University

- David C. Parkes (PI)
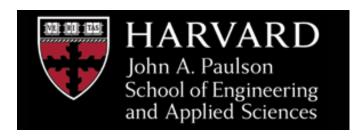
- Yiling Chen, Yaron Singer

Areas of Interest

- Peer prediction (information elicitation without verification)
- Social networks
- (Combinatorial) prediction markets
- Statistical machine learning
- Causal inference
- Social computing, crowdsourcing
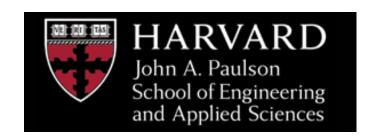- Algorithmic game theory

Capabilities

- Leading research group on "Economics and Computer Science". Founded by Parkes in 2001. Hosts a large number of visitors and postdocs.

- <u>Prof. Yiling Chen</u>
    - **Analysis and design of social computing systems for information elicitation and aggregation**
    - Co-Chair: Workshop on Social computing and User-generated Content, 2011-14; 9th Conf. on Web and Internet Economics, 2013; 17th ACM Conf. on Economics and Computation, 2016; Editor, special track *JAIR* on Human computation and AI
    - NSF CAREER award, IEEE "AI's 10 to watch"
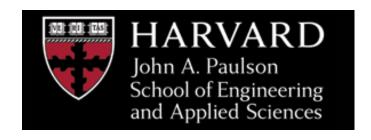
- <u>Prof. David Parkes</u>
    - **Mechanism design, information elicitation, machine learning, market design, preference elicitation, multi-agent systems**
    - Co-Chair: ACM SIGecom 2011-15; 2nd AAAI Conf. on Human Computation and Crowdsourcing 2014; 8th ACM Conf. on Electronic Commerce, 2007; 7th Int. Joint Conf. on Auton. Agents and Multi-agent Systems, 2008; Steering committee, Workshop on Econ of Networks, Systems and Computation 2007-13; Editor, special track *JAIR* on Human computation and AI
    - NSF CAREER award, Sloan award, AAAI Fellow, Thouron Fellow

- <u>Prof. Yaron Singer</u>
    - **Algorithms, mechanisms, data mining techniques for social and information networks**
    - Co-organized workshop on Social and Information networks at EC'15; (Senior) PCs of WSDM, ITCS, STOC, KDD, EC, WINE, WWW
    - NSF CAREER award, Google Faculty award, BSF and NSF grant

- We bring methodological expertise on (incentive-aligned) elicitation of costly information via <u>peer prediction</u>, <u>prediction markets</u> and <u>crowdsourcing</u> techniques.

- 1-3 PIs (Parkes, Chen, Singer)

- Interested in forming a collaborative team with an <u>applications-oriented research group</u> that brings UX, data science, and systems experience, and can lead development, run field experiments.

Contact Information

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