Abstract:
Healthcare in this country has undergone a seismic transformation with the widespread adoption of electronic health records (EHRs). At the same time, the growth of genomics and precision medicine are reshaping fundamental assumptions about the nature of disease. Unfortunately, current generation EHRs is not designed for the big data challenges of precision medicine. The Electronic Medical Records and Genomics (eMERGE) Network is a national consortium that has been a leader in mining EHR data to support research and also in developing methods for incorporating genomic data into care. This talk will leverage the experiences of eMERGE and similar projects to illuminate the promise and challenges of bringing big data into healthcare.

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