

School of Health Information Science Seminar Series:

A clinical perspective on healthcare AI: where does it fit, and what traps to avoid?



Speaker:

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10:00am PT

A clinical perspective on healthcare AI: where does it fit, and what traps to avoid?

Despite huge investment in - and political support for - AI in healthcare, less than 10% of AI decision support tools are studied against a gold standard or outside the lab, meaning that 91% can have no impact on clinical practice [1]. Clinicians are part of the problem, often failing to verbalise their needs or what factors would help them trust an AI. When they do, the results are revealing [2, 3].

This talk will summarise how clinicians work, identifying the many niches where AI can provide support. It will then review some examples of knowledge-based and data-derived AI, identifying some of the challenges that can affect their performance or acceptability to clinicians. Some technical challenges include:

Poor quality or misleading datasets

- Biased algorithms
- Algorithmic drift
- Poor linkage to EPR datasets [4]
- Poor calibration despite excellent discrimination

Psychological challenges include:

- False assumptions about the role of AI in decisions [5]
- Poorly formatted algorithm output [6]
- Alert fatigue
- Automation bias [7]

[Link to speaker bio & abstract references](#)

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