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## **Machine learning and artificial intelligence for healthcare applications**

### **Faculty:**

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### **Project Description:**

PhD students in my lab are encouraged to explore and research on a wide spectrum of machine learning and artificial intelligence topics. Currently, our projects can be grouped into three main themes: 1) deep learning for medical image understanding and analysis 2) reinforcement learning and recommendation system for treatment personalisation and optimisation and 3) federated learning for multi-center learning. All our projects are motivated by real needs in various healthcare scenarios. We always work with real world healthcare data, and we will be working closely with physicians. Our vision is to develop machine learning and artificial intelligence solutions that address real healthcare challenges.