



# CBR Virtual Summer Seminar Series

Wednesday, June 23 | 11:00am - 12:00pm PST



**Dr. Hongshen Ma, Associate Professor**

Mechanical Engineering, Biomedical Engineering, Urologic Sciences  
Centre for Blood Research

**Topic: “New technologies for medicine and biology: red blood cells, NETs, and finding rare sperm.”**

**Presentations:**

Erik Lamoureux: “Predicting RBC deformability from microscopy images using deep learning”

Pan Deng: “Investigating the role of paracrine signalling in NETosis using hydrogel nanowell arrays”

Ryan Lee: “Automated sperm identification for non-obstructive azoospermia patients using deep learning”

Hong Ma’s lab develops new technologies for medicine and biological research by leveraging advances in microfluidics, 3D printing, imaging, and data analytics. For this year’s CBR seminar, we will present a sampling of our research in red blood cell deformability, neutrophil extracellular traps, and finding rare sperm for in vitro fertilization.



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