



## Isaac T.S. Li

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### Research Theme

Biomedical and Biological Materials (BBMM) & Polymer Materials (PNMM)

### Research Areas

- Single-molecule and single-cell biophysics
- Super-resolution fluorescence imaging
- DNA-based biosensors and nanotechnology
- Mechanobiology and mechanochemistry
- Cell rolling adhesion
- Neural junction biomechanics
- Exosome detection and characterization for early detection of diseases

### Research Facilities/Tools

- Single-molecule fluorescence
- Super-resolution microscopy
- Darkfield microscopy
- Computer image processing and automation
- Single-cell/particle tracking and analysis
- Optical tweezers
- Surface passivation and functionalization
- Computer-hardware interfacing (MATLAB/Labview)

