## Michal Bajcsy's Nano-Photonics and Quantum Optics lab at IQC

quantum emitters

nano-photonic structures

individual laser-cooled atoms +

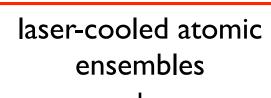
planar photonic-crystal cavities





- ✓photon storage
- ✓single photon phase gate
- ✓non-destructive photon detection
- √Fock-state generation
- √ photon–number resolving detectors
- √low power all-optical switch
- ✓all-optical transistor
- ✓microwave to optical
- interface
- √ultra-narrow linewidth light sources
- √non-classical light sources
- √quantum simulation platforms

http://npqo.weebly.com/



on-chip optical waveguides

