







University of Ottawa CERC Program in Quantum Photonics: Seven Great Years

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Please feel free to photograph my visuals.

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Some Seven-Year Accomplishments of the uOttawa CERC Group

• The CERC group now has a permanent staff of six and a total population at any given moment of about 50.













Robert BoydKsenia DolgalevaJeff LundeenEbrahim KarimiGerd LeuchsJeremyUphamCERCAsst. Prof.Asst. Prof.Asst. Prof.AdjunctProf.Staff Scientist

- We have published approximately 200 research papers
- We were visited by the President of Germany and have been designated as a Max Planck Centre





Research in Nanophotonics

- Understand the nature of light on small length scales
 - Observation of a Möbius structure in the polarization of a light beam



Science, 2015

• Use nanofabrication to develop nanoscale devices (eg, a chip-scale spectrometer)





Research in Quantum Information

- Measurement and characterization of a quantum state
 - To better understand nature
 - Characterization tool for quantum technologies
- Direct measurement of the Wigner distribution function of a single-photon state





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Some Things I Learned About Canada

Linguistic Issues

"Graduate student" becomes HQP

"Laboratory equipment" becomes infrastructure

Practical Issue: How to find a mail box





Some general comments