

## Andrew D. Phillips, PI

- Assistant Professor
- Born in Toronto in 1973
- PhD Dalhousie 2001
- SFI Stokes Lecturer 2008
- Marie Curie Fellowship 2006
- Member of the American Chemical Society, Royal Chemistry Society and Irish Chemistry Society



## Research Field

- Development of new homogeneous phase catalysts and methodologies.
- Bifunctionally active catalysts with new methods of incorporating small molecules into drug precursors
  - Adaption of catalysts to operate under greener conditions, including biphasic separations and magnetic nanoparticle recovery
  - Computational design of new catalysts

## Scientific Impact

- 81 peer-reviewed publications and review articles
- H-index of 31
- > 3394 citations
- 2 patents issued for hydrogen storage
- > 100 invited seminars or lectures
- International collaborators in UK, Spain, Italy and Switzerland

## Technological Impact

- Developing substrate tailored catalysts for 100% atom efficient Diels-Alder reactions.
- Developing fluororous soluble complexes for complete catalyst recycling in flow reaction conditions
- Developing catalysts for the rapid incorporation of parahydrogen into drug precursors for rapid MRI diagnostics