Tobin Elliott Brown

Department of Chemical and Biological Engineering
University of Colorado - Boulder
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EDUCATION

Ph.D. - Chemical Engineering (2013- current)

University of Colorado - Boulder

Advisor: Kristi Anseth

Current GPA: 4.0

B.Eng. - Chemical Engineering (2009-2013)

McGill University, Montreal, Quebec

GPA: 3.90

AWARDS

2013 - NSERC Postgraduate Studies M Scholarship ($17,300)

2013 - Dean's Outstanding Merit Fellowship - CU Boulder PhD program ($5,000)

2012 - McGill EUL undergraduate research scholarship ($5,750)

2009-2013 - JW McConnell Scholarship – McGill University ($3,000/year)

2009-2013 – Dean's Honour List – McGill University (top 10% in faculty)

2009 - National Merit Scholar ($2,500, *declined to study in Canada*)

2009 - U.S. Presidential Scholar Semifinalist

2008 - Perfect Score (36) on the ACT

PUBLICATIONS

Storms, Z. J., **Brown, T.**, Cooper, D. G., Sauvageau, D. and Leask, R., "Impact of the cell life-cycle on bacteriophage T4 infection". FEMS Microbiology Letters, *in revision.*

Storms, Z. J., **Brown, T.**, Sauvageau, D. and Cooper, D. G. (2012), "Self-cycling operation increases productivity of recombinant protein in *Escherichia coli"*. Biotechnol. Bioeng., 109: 2262–2270.

WORK EXPERIENCE

Research Assistant (summer 2012)
Professor Richard Leask, Chemical Engineering, McGill

- EUL Scholarship research grant
- Operated Self Cycling Fermentor (SCF)
- Studied the effect of host cell synchronization on bacteriophage replication and recombinant protein production
- Burst size experiments, DNA/RNA isolation, gel electrophoresis

Research Assistant (summer 2011)
Professor David Cooper, Chemical Engineering, McGill

- Performed chemical synthesis and biodegradation of plasticizers and metabolites
- Inoculation and growth of bacteria, whole flask liquid extractions, sterile techniques
- Gas chromatography

Previous Employment

- **Railway Laborer (summer 2010)** Remcan Projects, Ltd, Mont-Joli, Quebec
- **Waiter (summer 2010)** Cadillac Grille, Jackson, Wyoming
- **Ranch worker (summer 2009)** Mead Ranch, Jackson, Wyoming
- **Construction worker (summer 2008)** Teton Heritage Builders, Jackson, Wyoming

TEACHING EXPERIENCE

Teaching Assistant: General Chemistry for Engineers (Spring 2014)

VOLUNTEER EXPERIENCE

Undergraduate Tutor – Material and Energy Balances

Engineers Without Borders Canada (School outreach program)

McGill Tech Fair

Jackson Youth Hockey Assistant Coach

Habitat for Humanity

- Volunteer in the ReStore in Jackson and on Saturday build days

ACTIVITIES

University: Quebec Engineering Competition 2013, Engineering E-week committee, mentor in chemical engineering Godfather program

Recreational: ice hockey, softball, ultimate Frisbee, guitar, chess, hiking, mountain biking