

# Christopher Frewin

*M.S. Mechanical Engineering, Cornell University*

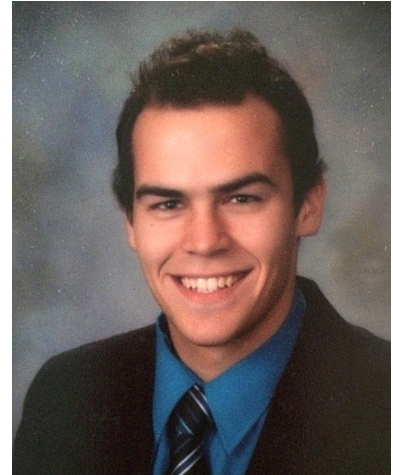
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*Updated September 18, 2015*



## INTERESTS AND GOALS

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Software development, large data set analysis, numerical optimization methods. I would like to be on a diverse team solving diverse and difficult problems.

## EDUCATION

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**Cornell University**, Ithaca, NY, USA.

*08/22/2014 – Expected 12/19/2015*

*M.S. Mechanical Engineering*

Adviser: Professor Perrine Pepiot

**Clarkson University**, Potsdam, NY, USA.

*08/27/2010 – 04/10/2014*

*B.S. in Mechanical Engineering with Honors and Great Distinction*

Adviser: Professor Suresh Dhaniyala

**Clarkson University**, Potsdam, NY, USA.

*08/27/2010 – 04/10/2014*

*B.S. in Physik with Great Distinction*

Advisers: Professor David Wick, Professor Michael Ramsdell

## EMPLOYMENT AND INTERNSHIPS

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### **Graduate Research Assistant (M.S. Thesis)**

*10/30/2014 – Expected 12/19/2015*

Pepiot Research Group, Mechanical Engineering, Cornell University  
Development of molecular structure tracing system for biofuel blends.  
Optimization of emissions reduction for petroleum-biofuel blends.

### **Data Engineer for Right Price Management LLC**

*02/19/2015 – 05/04/2015*

Creating Airbnb Inc. and hotel databases from online APIs for a Cornell startup company that provides detailed pricing, analytics, and sentiment analysis for Airbnb Inc. property owners.

### **Website Developer for Upursuit**

*07/09/2015 – 08/11/2015*

*Ithaca, NY*

[upursuit.chrisfrew.in](http://upursuit.chrisfrew.in) - Built a website which organizes Cornell Alumni events by calculating the distance of each event to the website user, and also the weather forecast for the start date of each event.

### **Intern for Hirl Technik**

*06/15/2014 – 07/04/2014*

### **Mixing and Plant Technology GmbH & Co. KG**

*Falkenberg, Bayern, DE*

Created digital parts and engineering drawings for the company.  
Participated daily in hands-on manufacturing.

### **Intern for General Electric Transportation**

*05/21/2012 – 08/03/2012*

### **Diesel Locomotive Engine Manufacturing Plant**

*Grove City, PA*

Completed many projects, the best project I completed saved the company \$100 per fuel valve block.

### **Undergraduate Research Assistant (Thesis)**

*10/25/2011 – 05/27/2014*

*Potsdam, NY*

Dhaniyala Research Group, Mechanical Engineering, Clarkson University  
Modeling, design, and fabrication of an electrostatic particulate filter scaled for diesel vehicles, designed to capture diesel soot exhaust.

### **Undergraduate Research Assistant (Paid Research Assistant)**

*09/15/2013 – 05/25/2014*

*Potsdam, NY*

Kheim Tran, Mechanical Engineering, Clarkson University  
Developed user interface for a finite element solver of ground penetrating radar (GPR) simulations.

## GRADUATE PUBLICATION

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Laurent, C. Frewin, and Pepiot, P. “Numerical tracers to investigate soot formation in multi-component fuel combustion” Paper presented at the 9th U.S. National Combustion Meeting, Cincinnati, Ohio

## HONORS, AWARDS, AND FELLOWSHIPS

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### **Spark Clean Energy Fellow**

10/01/2014 – 05/09/2015

*San Francisco, CA, USA, Cambridge, MA, USA, Ithaca, NY, USA*

Selected as one of 16 fellows from a national pool of applications.

Three other fellows and I created a career accelerator for students to gain internship positions at clean energy companies the summer of 2015.

<http://www.sparkcleanenergy.org/jucce.html>

### **Austrian Marshall Plan Scholar**

02/13/2012 – 08/01/2012

*Wels, Austria*

Academy of Applied Sciences Upper Austria

Conducted extensive literature review and implementation numerical parameter identification method for a simple system. Strengthened my skills with multi-variable calculus and the conversion PDEs to ODEs.

I was also exposed to topics like Lagrange multipliers.

<http://www.marshallplan.at/index.php/features>

### **Recipient of a NSF Stipend through Grant #OISE-1065179**

05/22/2011 – 08/05/2011

*Beijing, China*

Chinese Academy of Sciences Institute of Physics

Funded by partnership of the National Science Foundation, Corning Incorporated, and the Center for Advanced Material Processing at Clarkson University.

Studied experimentally the effect of repeated impact collisions on the coefficient of restitution for various materials.

[http://web2.clarkson.edu/projects/reushen/ires\\_china](http://web2.clarkson.edu/projects/reushen/ires_china)

## SOLE PROPRIETORSHIP

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### **Owner and Founder of Siren Apparel**

10/16/2011 – Present

*Potsdam, NY, USA, Ithaca, NY, USA*

Startup clothing company that donates all profits to firefighters and police officers.

Donated over \$250 so far.

[www.sirenapparel.us](http://www.sirenapparel.us)

[www.facebook.com/sirenapparel](http://www.facebook.com/sirenapparel)