# Yifan Wu

## About me

Yifan is a master student at University of Waterloo majoring in chemical engineering. He is a passionate and self-taught engineer with solid background in statistic and programming, and hands-on experience in both experiments design and data analysis. He is always thrilled to learn new technologies and use them into work.

## Contacts

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|---|---|
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| GitHub | @ IvanWoo |
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## Skills

**Python**

**Statistic**

**Engineering Calculations**
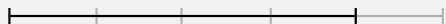
**MATLAB/Octave**
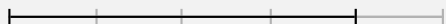
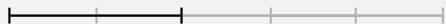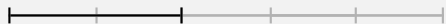**Excel/Word/Powerpoint**
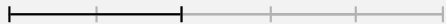
**Git**
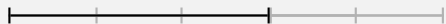
**Ruby**
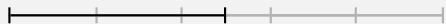
**R**
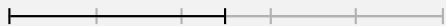
**TEX**

**HTML**
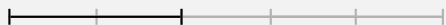
**CSS**

**Javascript**

**Jekyll**

## Education

### University of Waterloo, Canada

MASc Chemical Engineering | GPA: 86.14/100 | Excepted August 2017

Core Coursework: Statistics in Engineering; Applied Engineering Mathematics; Advanced Process Dynamics and Control.

### Sichuan University, China

B.S. Pharmaceutical Engineering | GPA: 3.25/4 | September 2010 - July 2014

Graduation thesis: Fabricate Red-blood-cell-like Microspheres via Electrospray

## Work Experience

### Research Assistant

University of Waterloo | Ontario, Canada | January 2016 - August 2017

- Researched the rheology and pipeline flow behaviour of starch nanoparticle dispersions.
- Implemented statistic tools, such as factor design, ANOVA table, in experiments.
- Used python Pandas library to analyze data and python matplotlib library to visualize data.

### Teaching Assistant

University of Waterloo | Ontario, Canada | January 2017 - April 2017

- CHE 121 Engineering Computation.
- Developed an integrated solution for automatic marking and entering grades of MATLAB code assignment.
- Implemented the MATLAB built-in unit testing framework and Pandas, a data analysis library in Python.
- Tutored students in basic MATLAB programming and engineering computation using MATLAB.

### Teaching Assistant

University of Waterloo | Ontario, Canada | September 2015/2016 – December 2015/2016

- NE 111 Introduction to Programming for Engineers.
- Assisted first-year nano engineering undergraduates learning the basic concept of computational thinking by Python and Numpy library.

### Project Secretary Intern

Austar Pharmaceutical Equipment Ltd. | Shijiazhuang, China | September 2015/2016 – December 2015/2016

- Audited business files.
- Assisted QMS (quality management system) engineers to communicate with clients.
- Completed files consolidation and meeting record.

## Projects

### Grading-Helper

- The project is built for CHE 121 teaching assistant.
- Graded and entered the mark of 76 students' MATLAB assignments automatically.
- Used MATLAB built-in unit testing framework and Pandas.