

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

Phone (226) 868-9845
Email tyivanwu@gmail.com
Website ivanwoo.github.io
GitHub @ IvanWoo
LinkedIn /in/yifanwu316

Skills

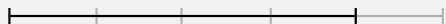
Python



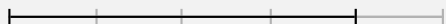
Statistic



Engineering Calculations



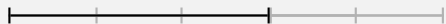
MATLAB/Octave



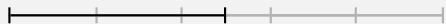
Excel/Word/Powerpoint



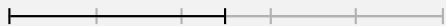
Git



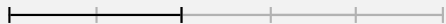
Ruby



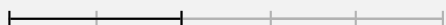
R



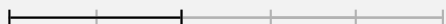
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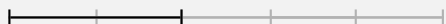
HTML



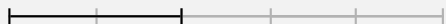
CSS



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.