

# Cody Hui

APPLIED MATHEMATICS STUDENT RESEARCHER IN SEATTLE WASHINGTON

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## Skills

**Programming** Python, MATLAB, R, Java, HTML, CSS, Javascript, PHP, Latex, Wordpress, SQL, C++  
**Software** Latex, Excel

## Education

**University of Washington**

Seattle

**B.S. IN APPLIED AND COMPUTATIONAL MATH SCIENCES (ACMS) - SCIENTIFIC COMPUTING**

Expected: Jun. 2017

**MINOR IN MATH**

CUMULATIVE GPA: 3.3 / 4.0

## Relevant Courses

**Programming** Artificial Intelligence, Data Structure and Algorithms, Java I & II, Web Programming, MATLAB  
**Applied Math** Linear Programming, Scientific Computing, Computational Methods for Data Analysis  
Continuous Mathematical Modeling, Scientific Computing, Neural Coding & Computation  
**Math** Discrete Mathematical Modeling, Computational Statistics, Differential Equations, Matrix Algebra, Linear Analysis,  
Mathematical Reasoning, Real Analysis, Vector Calculus and Complex Variables, Advanced Multivariable Calculus

## Relevant Experience

**High Dimensional Analysis**

UW Biostatistics Department

UNDERGRADUATE RESEARCH ASSISTANT | DEVELOPER

Nov. 2015 - PRESENT

- Develop code in R into an easy to use web application for researchers wanting statistical analysis of inputted data.
- Maintain a clean and efficient code structure. Document all parts of the code in an organized manner.

**Video Streaming and Cloud Cluster Management**

MacroView HK

SOFTWARE DEVELOPER INTERN | IMPLEMENTATION

Jun. 2016 - Sep. 2016

- Developed a video streaming solution for the Hong Kong Jockey Club.
- Implemented Mantl.io framework for the company's development process. Implementation is being tested for commercial use.

**Computational Method Papers**

University of Washington

COMPUTATIONAL METHODS FOR DATA ANALYSIS (AMATH 482)

Jan 2016 - Mar 2016

- Wrote papers on digital signal processing, noise reduction and filtering, image processing and face recognition, sparse representation and compressive sensing, PCA, DMD, model reduction, clustering and classification

**Reading Bilingual**

University of Washington

DUBHACKS 2015

Oct. 2015

- Developed a simple to use web application to help users learn foreign language words using HTML, CSS, Javascript, PHP, the Yandex translation API, and the Readability API in a 24 hour time period.
- Created basic physics games using the Unity Engine and the Leapmotion system.

## Extracurricular Activities

**Society of Asian Scientists and Engineers (SASE)**

University of Washington

CORE OFFICER AND WEBMASTER 2015-2016

Sept. 2015 - PRESENT

- Design and update content of SASE UW website

**Hong Kong Student Association (HKSA)**

University of Washington

PHOTOGRAPHER AND WEBMASTER

Sept. 2015 - Jun. 2016

- Captured photos for every event and kept website up to date with events