

Cody Hui

APPLIED MATHEMATICS STUDENT RESEARCHER IN SEATTLE WASHINGTON

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Education

University of Washington

Seattle

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

Sept. 2013 - Jun. 2017

MINOR IN MATH

CUMULATIVE GPA: 3.3 / 4.0

Skills

Programming Proficient: Python, MATLAB, R, Java, HTML, CSS, Javascript, PHP, Latex, Wordpress

Familiar: SQL, C++

Software Latex, Excel

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.

Software Developer | Implementation

MacroView HK

VIDEO STREAMING AND CLOUD CLUSTER MANAGEMENT

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.

Relevant Courses

Programming Artificial Intelligence, Data Structure and Algorithms, Java I & II, Web Programming, MATLAB

Applied Math 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

Projects

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, time-frequency methods and wavelets, sparse representation and compressive sensing, PCA, SVD, POD, DMD, model reduction, multi-scale equation-free methods, 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