

Wenjie Li / William

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EDUCATION

The Chinese University of Hong Kong (CUHK), Hong Kong. Sep. 2015-July. 2019

Bachelor of Mathematics. Minor in Computer Science. Expected: July. 2019

Cumulative GPA: 3.871/4.0; Major GPA: 3.934/4.0 (until Aug. 2018)

2017-2018 Exchange Student Ranking: **1st among all exchange students (>1000)**

University of Pennsylvania (UPenn), Pennsylvania, USA. Jan-May. 2018

International Exchange Student. Major in Mathematics.

Three graduate-undergraduate double coded courses. GPA: 4.0/4.0 (two A+)

Two online Computer Vision courses taught by Prof. Jianbo Shi.

RESEARCH EXPERIENCE

General Robotics, Automation, Sensing & Perception Lab (GRASP lab), UPenn Apr-Aug. 2018

Project: Learning Cross-domain Kinematics from Pose Articulation

- Work with Prof. Jianbo Shi and his students Xiao Zhang, Bowen Ke.
- Assist the project of pose guided image generation by learning cross-domain kinematics
- Build and train models on different datasets (e.g. Market-1501, DeepFashion) employing different configurations, for body pose and hand pose estimation with PyTorch.
- Build the depth model for body joints to avoid occlusions between body parts, which boosts up the performance by 20%
- Participate in daily meetings with Prof. Shi and his students.

Bioinformatics Lab, CUHK May-Oct. 2017

Project: Using Gapped-k-mers as Kernel for Separation of DNA Sequences

- Worked in Prof. Kevin Yip's research group as a student research helper.
- Assisted the project of analyzing DNA sequence similarities by using *gapped-indel-kmer-pattern*.
- Optimized the efficiency of a counting algorithm, which generated different kernel functions for a Support-Vector Machine (SVM) and separated DNA sequences into negative and positive groups.
- Analyzed the false positive rate to evaluate model performance.
- Participated in weekly meetings to report research progress with Ph.D. students and Prof. Yip.

Times Series group, Department of Mathematics, CUHK Feb-May. 2017

- Studied time series, financial modeling, application of wavelet, and technical analysis under the supervision of Chairman Prof. Raymond Chan.
- Presented important concepts and modern techniques in the analysis of time series.
- Built more than 10 statistical models with computer programs in language R.
- Created a new financial indicator that performed well in predicting short-term fluctuations in time series and presented it in group meetings.

TEACHING EXPERIENCE

The Chinese University of Hong Kong

Teaching Assistant.

Sep-Dec. 2016

- Taught the general education course GESH1010 with Prof. Juanita and Prof. Kristy.
- Prepared teaching materials with other TAs and professors.
- Participated in weekly meetings and discussions about the course progress.

SCHOLARSHIPS/AWARDS

- Heung To Education Fund Mathematics Scholarship 2017 (**Top 2**)
- The Cheng Foundation Scholarship 2017 (**Top 1%**)
- The S.H. Ho Annual Scholarships for Outstanding Academic Performance 2017 (**Top 3%**)
- The S.H. Ho Foundation Student Exchange Scholarships 2017/18
- Dean's List 2016-2017; 2015-2016; (2 years) (**Top 10%**)

- Yasumoto International Exchange Scholarship 2017
- Undergraduate Mathematics Scholarship 2016 (**Top 10%**)
- Master's List 2016-2017 (**Top 3%**)
- The S.H.Ho Summer Exchange Scholarship 2015-2016
- Admission Full Scholarship 2015 (**Top 1**)

SKILLS

Specialized: PyTorch, Swing

Computer Skills: Python, MATLAB, Java, Ocaml, LaTeX, R, C++, MS Office, Adobe

Languages: Fluent English and Cantonese, native Mandarin, basic French.

EXTRA-CURRICULUM

President of Flame Dialogues • CUHK

Nov. 2015 - Sep. 2017

- Coordinated the daily work of different members in the club.
- Participated in regular joint meetings among all five universities.
- Reported many interviews with articles that are published on the internet.

Yau-Mathematical Sciences Center (YMSC), Tsinghua University, China

July-Aug. 2017

- Studied the Anosov Representations and relevant algebraic topics.

Bali Island, Indonesia

Dec-Jan. 2016

- Taught more than 100 elementary school students basic English.
- Volunteered in arranging teaching materials for the school.