Brandon Chung Yuen Yeung

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EDUCATION

Swarthmore College B.S. Engineering w/ concentration in Mechanical Engineering; Minor in Physics GPA: 3.99/4.00 GRE: 163/170 Verbal, 170/170 Quantitative, 4.5/6 Writing	Swarthmore, PA, USA Aug 2014 – May 2018
Li Po Chun United World College of Hong Kong IB Bilingual Diploma & UWC Diploma, Davis UWC Scholar Score: 40/42 (41/45 w/ bonus points) SAT: 2350/2400 (800/800 Reading, 760/800 Mathematics, 790/800 Writing)	Hong Kong Sep 2012 – May 2014
EXPERIENCE	
 Swarthmore Fuel Cell Vehicle Engineering Senior Design Project Redesigning and rebuilding the Swarthmore prototype fuel cell vehicle Preparing for 2018 Shell Eco-marathon Americas 	Swarthmore, PA, USA Sep 2017 – Present
 Swarthmore Nonlinear Dynamics Lab Research Assistant Contributed to improving mechanistic studies of ultrasound-assisted, microbubble-mediated thrombolysis Trained to operate a confocal fluorescence microscope Fabricated synthetic thrombi from 0.1 - 1.0 unit/mL thrombin 3D printed scaled models of thrombi Analysed confocal micrographs and 3D prints for porosity variation Developed technique for performing finite element analysis on 3D thrombus model in ANSYS Estimated effective stiffness of thrombus in <i>x</i>, <i>y</i>, <i>z</i> directions in simulation Investigated variations in experimental procedure to isolate causes of unexpected anisotropy Implemented Rayleigh-Plesset Equation (single bubble oscillation due to sound field) in Mathematica 	Swarthmore, PA, USA Jun 2016 – Jul 2017

Tencent (Internet Company)

Data Centre Intern

- Monitored and adjusted air conditioning systems of data centre modules based on load
- Installed baffles on module housings to reduce cool air leakage •
- Assisted with inspections of servers and air conditioning systems during routine power cut drill

PUBLICATIONS

Conference Presentation

Yeung BCY, Everbach EC, 2017, "Simulating Fibrin Clot Mechanics Using Finite Element Methods," 173rd Meeting of Acoustical Society of America and 8th Forum Acusticum, Boston, MA

Posters

- Yeung BCY, Everbach EC, 2017, "Simulating Fibrin Clot Mechanics Using Finite Element Methods," Biomedical Acoustics Best Student Paper Competition, 173rd Meeting of Acoustical Society of America and 8th Forum Acusticum, Boston, MA
- Yeung BCY, Everbach EC, 2016, "Fabricating and 3D Printing Fibrin Clots to Gain Insight Into Sonothrombolysis," Sigma Xi Student Research Poster Session, Swarthmore College, Swarthmore, PA

HONOURS

•	McCabe Engineering Award Engineering student of graduating class w/ highest GPA	May 2018	
•	Member Phi Beta Kappa Swarthmore College Chapter	May 2018 – Present	
•	Tau Beta Pi Scholarship , Tau Beta Pi	Jun 2017	
•	Member Acoustical Society of America	Jun 2017 – Present	
•	President Tau Beta Pi Swarthmore College Chapter	May 2017 – Present	
•	Member Sigma Xi Swarthmore College Chapter	Nov 2016 – Present	
•	Member Royal Aeronautical Society	Sep 2016 – Present	
•	John W Perdue Memorial Prize Engineering student of rising junior class w/ highest GPA	Jun 2016	

COMMUNITY SERVICE

	CONNECTIVE	
•	Co-leader Mandarin Tutorial Team Li Po Chun UWC of Hong Kong	Sep 2013 – Apr 2014
•	Created vector illustrations for Wikipedia articles	Sep 2013 – Apr 2014
•	Volunteered at Mai Po Nature Reserve Hong Kong to maintain and improve wetland conditions	Sep 2012 - Apr 2014

SKILLS & INTERESTS

- Software: Microsoft Office, Apple iWork, LaTeX, Adobe Illustrator, KaleidaGraph, MATLAB, Mathematica, ANSYS, ImageJ
- Hardware: Basic Electronics Lab, Basic Wet Lab, Mechanics Lab, 3D printing
- Languages: Mandarin, Cantonese, Python, Basic C, Basic HTML&CSS, Basic Verilog •

Shenzhen, China

Jun - Jul 2015

- Career Interests: Aeronautics & Astronautics, Ultrasound Imaging
 Research Interests: CFD, boundary layer flow, electric aircraft, other unconventional aircraft
 Extracurricular Interests: Swarthmore College Golf Team 2014, Li Po Chun Badminton Team 2013, Sketching, Photography