

DANIEL Y. CHOI

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EDUCATION

University of British Columbia

Bachelor of Computer Science (second degree program)

Expected September 2017

GPA 4.33

Bachelor of Science with Distinction, Integrated Sciences

May 2015

Concentration in biochemistry & human physiology

GPA 3.98

SKILLS

- Java, C/C++
- Working knowledge: Matlab, Python, Racket, JavaScript, LaTeX, HTML

TECHNICAL EXPERIENCE

Bicycle Trek [in progress] BC Lung Association

JavaScript, MeteorJS, Google Maps API

- Developing an exercise app that tracks user geolocation and stores training metadata on servers
- Pro bono project for a charity, working with a team of 7 other developers using agile strategies
- Learned JavaScript and how to work with APIs

Hakikuthon UBC Hackathon

Nov 2015

JavaScript, MeteorJS, Facebook API

- Built a real-time collaborative haiku poem writing platform
- <http://haikuthon.meteor.com>

Teaching assistant

University of British Columbia
Department of Computer Science

Sep 2015 - Present

- Taught labs and help hours for 80 students in CPSC 121
- Topics include logic circuits and proofs, discrete math, models of computer systems

Mind the Gap

CPSC 210 course project

Java, Transport for London Unified API

- Built an Android transit app for London that uses the Transport for London API to display real-time arrivals and station data
- Learned to parse JSON files, utilize user geolocation

ADDITIONAL EXPERIENCE

Undergraduate researcher

Centre for Molecular Medicine
and Therapeutics

May 2012 - Mar 2014

- Conducted diabetes and lipid metabolism research by experimenting on a nematode model

Chapter president

Phi Delta Epsilon
International Medical Fraternity

Mar 2013 - Mar 2014

- Lead a team of 8 executives and chairmen, and over 30 members
- Raised over \$2000 for Children's Miracle Network, organized ethics debates, shifts at a soup kitchen, and mentoring events with physicians

PUBLICATIONS

Hou, N., Gutschmidt, A., **Choi, D.**, Pather, K., Shi, X., Watts, J., ... Taubert, S. (2014). Activation of the endoplasmic reticulum unfolded protein response by lipid disequilibrium without disturbed proteostasis in vivo. *Proceedings of the National Academy of Sciences*, 22(111), E2271-80. doi:10.1073/pnas

Choi DY, Hou NS, Taubert S. Characterization of fatty acid genes required for maintaining proteostasis in the endoplasmic reticulum and mitochondria. Poster session presented at: Child and Family Research Institute Summer Student Research Program 2013 Poster day.

HONORS AND AWARDS

Child and Family Research Institute Summer Research Scholarship
University of British Columbia Summer Research Scholarship
Dean's Honor List (2010-2015)
Science Scholar (2015)
UBC President's Entrance Scholarship

EXTRACURRICULAR ACTIVITIES

Guitar instructor for charity fundraising (2014)
UBC orientations leader (2010-13)
Soup kitchen volunteer (2011-13)
HIV/AIDS ward volunteer (2011-12)
Hospital volunteer team leader (2011-12)
Science Undergraduate Society (2010-11)