DANIEL Y. CHOI

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EDUCATION

University of British Columbia
Bachelor of Computer Science (second degree program), expected grad September 2017
GPA 4.33

University of British Columbia
Bachelor of Science with Distinction, Integrated Sciences, May 2015
Concentration in biochemistry & human physiology
GPA 3.98

SKILLS

- Java & OOD, Racket, Python.
- Beginner skill set: MeteorJS framework, iOS development, JavaScript, C/C++, Swift, LaTeX, HTML.

PROJECTS

Bicycle Trek [in progress] BC Lung Association
JavaScript, MeteorJS, Google Maps API

- Developing a fitness app that tracks user geolocation and stores training metadata on a server
- Familiarized with Git, Trello, Agile/Scrum

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 pull real-time arrivals and station data
- Learned to parse JSON files, utilise user geolocation

EXPERIENCE

Teaching assistant University of British Columbia Sep 2015 - Present
  Department of Computer Science

Taught labs and help hours for CPSC 121 (logic proofs, discrete math, models of computation).

Undergraduate researcher Centre for Molecular Medicine May 2012 - Mar 2014
  and Therapeutics

- Conducted lipid metabolism research by experimenting on a nematode model
- Learned RNA interference, cloning, dissection, and fluorescent microscopy

Chapter president Phi Delta Epsilon Mar 2013 - Mar 2014
  International Medical Fraternity, UBC chapter

- Lead a team of 8 executives and chairmen, and over 30 members
- Organized ethics debates, raised over $2000 for Children's Miracle Network, 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. P*roceedings 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)