
EDUCATION

University of Washington, Seattle*Graduation: June 2016*

- Bachelors of Science in Computer Engineering with Honors
- Bachelors of Science in Bioengineering with Honors

RELEVANT WORK EXPERIENCE

Google Inc.*Summer 2015*

- Developer of Android animations for the Streams, Photos, and Sharing team.

University of Washington*June 2013 - June 2015*

- Advisor: Gaetano Borriello, Department of Computer Science and Engineering
- Developer of an Android application that processes images of diagnostic tests on a mobile phone and delivers a meaningful diagnosis at the point of care.

Microsoft Research*Summer 2014*

- Advisor: Bill Thies, Technologies for Emerging Markets Group
- Developer of an Android application for citizen journalists in rural areas to record audio news stories and send them to a central server.
- Trained a group of journalists to use the application which is currently being used throughout India.

University of Washington*September 2011 - January 2014*

- Advisor: Joan Sanders, Department of Bioengineering
- Developer of software and hardware for a device that used Force Sensitive Resistors to determine prosthetic socket fit for individuals with lower-limb amputations.
- Conducted a study analyzing changes in prosthetic sock thickness with use.

LANGUAGES AND TECHNOLOGIES

- *Proficient:* Java, HTML, CSS, PHP, SQL, Python, JavaScript, Unix/Linux
- *Familiar:* C, C++, LabVIEW, SolidWorks, COMSOL
- Android development, Eclipse, Android Studio, Git, Junit, OpenCV, Visual Studio, SQLite
- Lab skills: Analog/digital circuitry, soldering, Instron mechanical testing, signal processing
- Proficient in French, reading and writing

ADDITIONAL WORK EXPERIENCE

University of Washington*January 2014 - March 2014*

- Teaching assistant for an introductory Python course, CSE 140
- Taught a section of 20 students, graded homework assignments, and conducted weekly office hours to aid students with programming questions.

Broad Institute of Harvard and MIT*August 2012 - May 2013*

- Annotations on chemicals and their biological activities for BARD (BioAssay Research Database)

University of Washington*September 2012 - December 2012*

- Teaching assistant for an introductory honors seminar, HONORS 100
- Taught a weekly introductory class for a group of 15 freshman students.

JOURNAL PUBLICATIONS

1. Cagle J, **D'Silva K**, Hafner BJ, Harrison D, Sanders JE. Amputee socks: Sock thickness changes with normal use. *Prosthet Orthot Intl*. Accepted: March 2015.
2. **D'Silva K**, Hafner BJ, Allyn KJ, Sanders JE. Self-reported prosthetic sock use among persons with transtibial amputation. *Prosthet Orthot Intl*. 38(4):321-31, 2014.

POSTER PRESENTATIONS

1. **D'Silva K**, Marathe M, Vashistha A, Gaetano B, Thies B. A Mobile Application for Interactive Voice Forums: Design and Pilot Deployment in Rural India. DEV 2014. San Jose, CA. December 2014.

CONFERENCES AND WORKSHOPS

1. Dell N, **D'Silva K**, Borriello G. Mobile Touch-Free Interaction for Global Health. ACM Workshop on Mobile Computing Systems and Applications (HotMobile). Santa Fe, NM. February 2015.
2. **D'Silva K**, Cagle J, Sanders J. Quantifying Variations in Prosthetic Sock Thickness with Use. Delivered a 15 min talk at the Northwest Chapter Prosthetics Conference. Bellevue, WA, May 2013.
3. **D'Silva K**, Cagle J, Sanders J. Quantifying Variations in Prosthetic Sock Thickness with Use. Delivered a 10 min lecture at 16th Annual UW Research Symposium. Seattle, WA. May 2013.
4. **D'Silva K**, Cagle J, Sanders J. Quantifying Variations in Prosthetic Sock Thickness over Time. Delivered a 12 min oral presentation at the Academy Annual Meeting and Scientific Symposium. Orlando, FL. February 2013.
5. **D'Silva K**, Cagle J, Sanders J. Understanding Residual Limb Volume Fluctuations in Trans-Tibial Amputees Over Time. Delivered a 10 min lecture at 15th Annual UW Research Symposium. Seattle, WA. May 2012.

AWARDS AND HONORS

- Mary Gates Research Scholarship (2012, 2015)
- Annual Dean's List & Certificate of High Scholarship (2012, 2015)
- Russell/Thompson Legacy Mentoring Book Scholarship
- Society of Women Engineers Outstanding Female Departmental Award
- Undergraduate Research Program, Levinson Scholarship
- Undergraduate Research Program, Conference Travel Award (2012 & 2014)
- University of Washington Presidential Scholarship
- Emerging Leaders in Engineering Program, Priscilla and Melvin Wilson Endowed Scholarship
- American Academy of Orthotists & Prosthetists Northwest Chapter, Student Researcher Award
- Duke of Edinburgh's Award
- British Columbia Provincial Scholarship
- Southridge Service Award