MICHAEL Q. LAM

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EDUCATION

Oregon State University, Corvallis, OR, September 2014–Present
Ph.D. Candidate, Computer Science, Expected Graduation: December 2017

Oregon State University, Corvallis, OR, September 2012–June 2014
M.S., Computer Science, June 2014

University of Washington, Seattle, WA, September 2007–June 2011
B.S., Computer Engineering, Cum Laude, June 2011
B.S., Applied and Computational Mathematical Sciences, Cum Laude, June 2011
Minor in Mathematics, Music

Edmonds Woodway High School, Edmonds, WA, September 2003–June 2007
With Honors and Full IB Diploma, June 2007

HONORS AND AWARDS

NSF Graduate Research Fellowship, 2014–Present
ARCS Scholar Award, Oregon State University, 2012–2015
Washington NASA Space Grant Summer Undergraduate Research, 2011
Second Place Undergraduate Senior Thesis Award, 2011
Annual Dean's List, University of Washington, 2007–2011
Phi Beta Kappa, Upsilon Pi Epsilon, Tau Beta Pi, IEEE Eta Kappa Nu, Golden Key National Honor Society

EXPERIENCE

Graduate Research Assistant, September 2012–Present
Oregon State University, Corvallis, OR
Working on structured prediction using search and deep learning with biological applications.

Machine Learning Scientist Intern, June 2016–September 2016
A9.com (Amazon), Palo Alto, CA
Worked on Generative Adversarial Networks. Won second place in the Intern Hackathon.

Software Development Engineer Intern, June 2015–September 2015
A9.com (Amazon), Palo Alto, CA
Worked on image captioning using CNNs and LSTMs.

Student Researcher Programmer, September 2010–March 2012
University of Washington, Seattle, WA
(1) Designed GUI for computer vision research. (2) Developed bar code detector on Android.

SELECTED PROJECTS

Graduate Research, Oregon State University, Corvallis, OR, September 2012–2016
Assembling, Visualizing and Analyzing the Tree of Life (AVATOL) Project
Worked on structured prediction inference using search and deep learning with applications to evolutionary biology.

Undergrad Research, University of Washington, Seattle, WA, June 2011–March 2012
"Detecting Bar Codes in Real Time for Blind Accessible Mobile Applications"
Washington NASA Summer Undergraduate Research Program
Researched and developed a bar code scanner on Android for blind and low-vision users using computer vision, machine learning and blind accessibility interactions. This project was funded by the Washington NASA Space Grant.

Undergrad Research, University of Washington, Seattle, WA, September 2010–December 2011
"Designing a GUI for Craniofacial Imaging Tools"
Developed a graphical user interface that unifies craniofacial imaging tools for enabling faster computer vision research. This project won second place in the undergraduate senior thesis competition.

Accessibility Capstone, University of Washington, Seattle, WA, January 2011–March 2011
"The Phone Wand"
Co-developed a blind-accessible Android application that helps users navigate walking routes using compass and vibration feedback. Features a novel blind-accessible soft keyboard. The project was released as open source and it is being used in research.

PUBLICATIONS

M. Lam, J. R. Doppa, S. Todorovic, T. G. Dietterich, "HC-Search for Structured Prediction in Computer Vision", Proceedings of IEEE International Conference on Computer Vision and Pattern Recognition, 2015.

M. Lam, J. R. Doppa, X. Hu, S. Todorovic, T. G. Dietterich, A. Reft and M. Daly, "Learning to Detect Basal Tubules of Nematocysts in SEM Images", Proceedings of ICCV 2013 Workshop on Computer Vision for Accelerated Biosciences, 2013.

X. Hu, M. Lam, S. Todorovic, T. G. Dietterich, M. A. O'Leary, A. L. Cirranello, N. B. Simmons and P. M. Velazco, "Zero-Shot Learning and Detection of Teeth in Images of Bat Skulls", Proceedings of ICCV 2013 Workshop on Computer Vision for Accelerated Biosciences, 2013.

POSTERS

M. Lam, E. Mercan, L. Shapiro, "CranioGUI: A User Interface for Craniofacial Analysis Tools", FaceBase Consortium Third Annual Meeting, June, 2012.

M. Lam, B. Russell, R. Ladner, "Blind Accessible Bar Code Detection", Annual Awards Reception, Washington NASA Space Grant Undergraduate Research Program, University of Washington, Seattle, WA, September, 2011.

M. Lam, L. Lindsey, C. Raastad, S. Azenkot, R. Ladner, "The Phone Wand: Navigating Walking Routes Using Orientation and Vibration Feedback", Accessibility Capstone Premiere, University of Washington, Seattle, WA, March, 2011.

TEACHING

Android Programming Instructor, November 2011–December 2011
Programming Seminars for Accessibility Capstone, University of Washington, Seattle, WA

Math Instructor, July 2007–July 2008
SAT Math and Advanced High School Math, CLC Academy, Tacoma, WA

PROFESSIONAL SERVICE

Reviewer:
- Conferences: CVPR 2014–2016; ECCV 2014; ICCV 2015; NIPS 2015; AAAI 2016
- Journals: IMAVIS

Departmental Service:
- OSU EECS Faculty Candidate Interviews, 2013–2015
- OSU EECS Department Head Interviews, 2015
- OSU EECS Graduate Host for Grad Visit Days, 2015, 2017
- OSU EECS EXPO Volunteer, 2013–2016

Other Volunteering:
- CVPR Student Volunteer, 2015

OTHER EXPERIENCE

Lead Startup Software Development Engineer, June 2010–September 2012
Vous Inc., Seattle, WA

Web Developer, 2012
Sunbreak Games, Kirkland, WA

Web Developer, 2012
Harebrained Schemes, Bellevue, WA

Web & Software Developer, 2011–2012
Smith and Tinker, Seattle, WA

COMMUNITY & VOLUNTEER ACTIVITIES

Student Representative on Board of Directors, CHNW, Portland, OR, 2017–Present
Student Engagement Committee Member, CHNW, Portland, OR, 2016–Present
Resident Council Secretary, The GEM, Corvallis, OR, 2016–Present
Resident Council Member, The GEM, Corvallis, OR, 2012–Present
Music Minister, Newman Center at OSU, Corvallis, OR, 2013–Present
Grand Knight, Knights of Columbus #16145, Corvallis, OR, 2016–Present
Webmaster & Newletter Editor, Knights of Columbus #16145, Corvallis, OR, 2015–Present

Warden, Knights of Columbus #16145, Corvallis, OR, 2015–2016
Music Coordinator, Newman Center at UW, Seattle, WA, 2010–2012
Choir Director, Newman Center at UW, Seattle, WA, 2009–2012
Webmaster, Newman Center at UW, Seattle, WA, 2009–2012
Student Ministry Team Member, Newman Center at UW, Seattle, WA, 2008–2011
Webmaster, UW Math Club, Seattle, WA, 2008–2011
Peer Minister, Newman Center at UW, Seattle, WA, 2009–2010
Treasurer, UW Tau Beta Pi, Seattle, WA, 2009–2010