

MICHAEL Q. LAM

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EDUCATION

Oregon State University, Corvallis, OR, September 2014–December 2017
Ph.D., Computer Science, 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, 2014–2017
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 2017–December 2017
Oregon State University, Corvallis, OR
Worked on computer vision for explainable AI.

Applied Scientist Intern, June 2017–September 2017
Amazon, Seattle, WA
Worked on fine-grained visual similarity with deep learning.

Machine Learning Scientist Intern, June 2016–September 2016
A9.com, 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, Palo Alto, CA
Worked on image captioning using CNNs and LSTMs.

Graduate Research Assistant, September 2012–June 2015
Oregon State University, Corvallis, OR
Worked on structured prediction using search with biological applications.

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, B. Mahasseni, S. Todorovic, “Fine-Grained Recognition as HSnet Search for Informative Image Parts”, Proceedings of IEEE International Conference on Computer Vision and Pattern Recognition, 2017. (Oral)

B. Mahasseni, M. Lam, S. Todorovic, “Unsupervised Video Summarization with Adversarial LSTM Networks”, Proceedings of IEEE International Conference on Computer Vision and Pattern Recognition, 2017.

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; ICCV 2017
- 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

Web Developer (Contract), 2012, 2015
Harebrained Schemes, Bellevue, WA

Lead Software Development Engineer (Startup), 2010–2012
Vous Inc., Seattle, WA

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

Web Developer (Contract), 2012
Sunbreak Games, Kirkland, WA

COMMUNITY & VOLUNTEER ACTIVITIES

Board of Trustees, Knights of Columbus Council #16145, Corvallis, OR, 2017–Present
Outside Sentinel, Knights of Columbus Assembly #906, Albany, OR, 2017–Present
Tenant Director, Board of Directors, College Housing Northwest, Portland, OR, 2017
Student Engagement Committee, College Housing Northwest, Portland, OR, 2016–2017
Resident Council Secretary, The GEM, Corvallis, OR, 2016–2017
Resident Council, The GEM, Corvallis, OR, 2012–2017
Substitute Pianist, St. Mary's, Corvallis, OR, 2016–2017
Substitute Pianist, St. Mary's, Albany, OR, 2016–2017
Music Minister, Newman Center at OSU, Corvallis, OR, 2013–2017
Grand Knight, Knights of Columbus Council #16145, Corvallis, OR, 2016–2017
Webmaster & Newsletter Editor, Knights of Columbus Council #16145, Corvallis, OR, 2015–2017
Warden, Knights of Columbus Council #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
Music Minister, Newman Center at UW, Seattle, WA, 2007–2012
Student Ministry Team, 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