

# CATHERINE WAH

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PROFESSIONAL EXPERIENCE      **Google Inc.**, Mountain View, CA  
Senior Software Engineer, Photos      5/2018–present  
Software Engineer, Photo Search / Photos      10/2014–5/2018

- *Photo Search*: Developed ranking algorithms for Photo Search features
- *Photos Machine Intelligence*: Led design and implementation of various features (infrastructure and algorithm development) related to “smart sharing” in the Google Photos app
- Built and maintained analytics dashboards for sharing-related features
- Filed 2 patents

**Google Inc.**, Venice, CA  
Software Engineering Intern, Visual Search      6/2013–9/2013

- Worked on attribute-based visual classification of shopping images

**eBay Inc.**, San Jose, CA  
Research Intern, eBay Research Lab      6/2012–9/2012

- Investigated visual retrieval of fine-grained clothing types and styles, resulting in an academic conference workshop presentation (CVPR 2013)

**Amazon A9.com**, Palo Alto, CA  
Software Development Intern, Visual Search      6/2011–9/2011

- Prototyped an algorithm for mobile visual product search of visually similar items, aided by user input
- Filed patent “*Drawn Gesture Based Search to Identify Item*”

EDUCATION      **University of California, San Diego (UCSD)**, La Jolla, CA  
PhD, Computer Science, June 2014  
C.Phil, Computer Science, June 2012  
M.S., Computer Science, December 2011

**University of Illinois, Urbana-Champaign (UIUC)**, Urbana, IL  
B.S., Electrical Engineering with Honors, August 2008

- Computer Science Minor, Mathematics Minor

ACADEMIC EXPERIENCE      **Computer Science and Engineering Department, UCSD**, La Jolla, CA  
Graduate Student Researcher, advised by Serge Belongie      9/2008–6/2014

- *Visipedia*: Interactive visual recognition of fine-grained categories
- Co-created the Caltech-UCSD Birds 200 and Birds-200-2011 datasets (combined 600+ citations)
- Published at various top-tier computer vision conferences (see <https://scholar.google.com/citations?user=rCDdLUAAAAJ&hl=en>)
- Funded by the NSF Graduate Research Fellowship and UCSD Powell Foundation Fellowship

**Toyota Technological Institute**, Chicago, IL  
Visiting Research Intern, hosted by Subhransu Maji      1–3/2014, 2–5/2013

- Worked on interactive visual recognition of fine-grained categories using similarity-based comparisons with multiple perceptual similarity metrics
- Presented resulting work at WACV 2015 and was awarded *Best Paper: Vision and Learning*

**Electronic Engineering Dept., Chinese University of Hong Kong, Hong Kong**

Visiting Research Staff, hosted by Xiaogang Wang 6/2010–8/2010

- Funded by the NSF International Research and Education in Engineering (IREE) Award

#### SKILLS

Languages: Java, C++, Python

Environment: Linux/UNIX, MacOS

Other: MATLAB, SQL, JavaScript, HTML/CSS

Familiar with image processing, computer vision, machine learning topics

Language Skills: Proficient in Mandarin Chinese

#### SERVICE

Program Committee Member, *Fine-Grained Visual Categorization (FGVC) Workshop* 2013, 2015, 2017

Current reviewer for computer vision/machine learning conferences, including: ICCV, IJCV, CVPR, ECCV, BMVC

#### OTHER

U.S. Citizen