

CATHERINE WAH

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| CONTACT INFORMATION | <i>E-mail:</i> catherine.wah@gmail.com <i>Website:</i> http://www.catherinewah.com <i>Phone:</i> +1 (217) 377-5120 |
| PROFESSIONAL EXPERIENCE | <p>Google Inc., San Francisco, CA 10/2014–present Staff Software Engineer, Google Assistant</p> <ul style="list-style-type: none">• <i>Technical Lead/Manager, Natural Language Understanding for Assistant</i> (2018–present): Drove NLU launches on a new surface (Android Auto) for multiple locales.• <i>Photos Machine Intelligence</i> (2015–2018): Led end-to-end infra/algorithm design and implementation of “smart sharing” features in the Photos app; built dashboards to track metrics• <i>Photo Search</i> (2014–2015): Developed ranking algorithms for Search features• Filed 2 patents <p>Technical Lead, Google.org Software Engineering Fellow 9/2021–3/2022</p> <ul style="list-style-type: none">• Led 9-person team in building a data platform solution for a non-profit organization, as part of a selective 6-month fellowship <p>Google Inc., Venice, CA Software Engineering Intern, Visual Search 6/2013–9/2013</p> <ul style="list-style-type: none">• Worked on attribute-based visual classification of shopping images <p>eBay Inc., San Jose, CA Research Intern, eBay Research Lab 6/2012–9/2012</p> <ul style="list-style-type: none">• Investigated visual retrieval of fine-grained clothing types and styles, resulting in an academic conference workshop presentation (CVPR 2013) <p>Amazon A9.com, Palo Alto, CA Software Development Intern, Visual Search 6/2011–9/2011</p> <ul style="list-style-type: none">• Prototyped an algorithm for mobile visual product search of visually similar items, aided by user input• Filed patent “<i>Drawn Gesture Based Search to Identify Item</i>” <p>EDUCATION</p> <p>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</p> <p>University of Illinois, Urbana-Champaign (UIUC), Urbana, IL B.S., Electrical Engineering with Honors, August 2008</p> <ul style="list-style-type: none">• Computer Science Minor, Mathematics Minor <p>ACADEMIC EXPERIENCE</p> <p>Computer Science and Engineering Department, UCSD, La Jolla, CA Graduate Student Researcher, advised by Serge Belongie 9/2008–6/2014</p> <ul style="list-style-type: none">• <i>Visipedia</i>: Interactive visual recognition of fine-grained categories• Published at top-tier computer vision conferences (see Google Scholar)• Work has been cited 4000+ times• Supported by 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

- Investigated interactive visual recognition of fine-grained categories from similarity-based comparisons with multiple perceptual similarity metrics
- Awarded *Best Paper: Vision and Learning* at WACV 2015

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

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

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

SKILLS

Languages: C++, Java, Python

Environment: Linux/UNIX, MacOS

Other: MATLAB, SQL, JavaScript, HTML/CSS

Familiar with computer vision, machine learning, image processing topics

COMMUNITY

Elected to [Women in Machine Learning \(WiML\)](#) Board of Directors (2022-2023)

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

Have reviewed for computer vision/machine learning conferences and journals (2013–present), including: ICCV, IJCV, CVPR, ICLR, ECCV, BMVC, WACV

Mentorship: [MAGIC \(More Active Girls in Computing\)](#) (2015-2019), [Lumiere](#) research program for high school students (2021-present)

SERVICE

Volunteer at: [San-Francisco Marin Food Bank](#), [18 Reasons](#) non-profit cooking school, [826 Valencia](#) tutoring, [The Marine Mammal Center](#) harbor seal crew

OTHER

U.S. Citizen