Joy C. Ming

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Education

Harvard University, Cambridge, MA   Class of 2015
A.B. Candidate in **Computer Science**, Secondary in **Global Health and Health Policy**.
Thesis on data mining online forums to for interactions in drugs used for autism (in progress).
Coursework in human-computer interaction, machine learning, economics/computation, multiagent systems, data science, systems, and sociology, anthropology, biology, and political economy of health in the developing world.

Work Experience

NYU Abu Dhabi, Abu Dhabi, United Arab Emirates   5/2014-9/2014
Visiting researcher with Professors Jay Chen and Azza Abouzied of the Design Technology Lab.
- Design tangible user interfaces with visual and computational feedback for low-resource settings.
- Conduct needs assessment and usability testing with health and microfinance institutions in Accra.
- Develop printr, a system for organizations to automatically generate tools from data presentation tasks.
- Presentation of "Printing Paper Technology for Development" at **ACM Dev 2014** conference as first-author (12/2014) and accepted paper as co-author to **ACM ICTD 2015** (5/2015).

Harvard University School of Engineering and Applied Sciences, Cambridge, MA
9/2013-2/2014
Research assistant to Professor Barbara Grosz in Care Augmenting Software Partners (CASPERs) Group
- Design and prototype Your Organizer for Doctors Appointments (YODA) to help children with complex conditions log their concerns before a doctors appointment (hcs.harvard.edu/~jming/yoda).
- Prototype application patients and doctors manage care plans. (hcs.harvard.edu/~jming/goalkeeper).

Google, New York, NY   5/2013-8/2013
Engineering Practicum Intern on Corporate Engineering Team
- Add capabilities to internal staffing applications using Google Web Toolkit and Java on AppEngine.
- Improve interviewer calibration by enabling sharing and review of colleague feedback.
- Create dynamic, data-defined UI to enable richer data structures on feedbacks.

Raxa JSS EMR, New Delhi, India   5/2012-9/2012
Summer Front-End Intern and Volunteer Developer
- Research workflow of community health workers in organization of patients, visit scheduling, inventory tracking, and resource access by interviewing administrators and health workers in rural Chhattisgarh.
- Design screens, code front-end using Sencha Touch to link OpenMRS backend with REST calls in smartphone application for CHW module of health information system.

Leadership and Teaching

- Cofounder of **Harvard College Developers for Development** (Winter 2012).
- Teaching Fellow for **Data Science** (Fall 2014); **Introduction to Programming** (Fall 2012).
- Teaching Volunteer for **Digital Literacy Project** (Spring 2014, Fall 2014, Spring 2015) and board member.
- Teaching Volunteer for **Chinatown ESL** (Fall 2011, Spring 2013, Fall 2013).

Awards and Honors

- Panelist at "Doing Good with Technology" presentation at **Grace Hopper Conference** (10/2014).
- Finalist **J.P. Morgan Code for Good Challenge** (10/2013).
- Featured article "Autism in China" in **Journal of Global Health Spring 2012** edition (5/2012).
- Finalist for US Imagine Cup and Semifinalist for MIT $100K Competition for **Remindavax** (3/2012).
- Semifinalist in Microsoft's Big App on Campus and featured on radio of SXSW for **Jar of Joy** (12/2011).

Skills and Interests

Skills in Python, C, Web development (HTML/CSS/Javascript), Java.