

# Barbara L. Hui

## Technical Skills

*Languages:* Python, PHP, SQL, JavaScript, jQuery, PHP(5), XML, XSLT, HTML, CSS, vi(m) editor,

*Databases:* MySQL, PostgreSQL, MSSQL

*Operating Systems:* Mac OS X, Linux, Unix, Windows

*Architectures/Other:* Git, Mercurial, Docker, OJS, Nuxeo, AWS

## Work Experience

Mar 2012 -  
present

**Software Developer.** Access and Publishing Group, California Digital Library, University of California Office of the President.

- In collaboration with multiple technical teams, developed technical processes for integrating Nuxeo and Merritt systems.
- Installed IIF image server for the UC Libraries Digital Collections platform, with images stored on AWS S3 and using a Docker image.
- Developed process for “deep harvesting” content and metadata from Nuxeo into Calisphere.
- Loaded several complex METS collections into Nuxeo
- Modified UCLDC harvester code to accommodate Nuxeo specific content.
- Continued work on customizing and maintaining *Open Journals Systems* (OJS) for use by eScholarship.
- Founded and chaired Digital Humanities Common Knowledge Group, with members from 9 UC campuses plus CDL.
- Technologies used: XSLT, ATOM pub, Nuxeo, Python, AWS, Docker, PHP, MySQL, XSLT

Mar 2011 -  
Feb 2012

**E-Publishing Applications Developer.** Publishing Group, California Digital Library, University of California Office of the President.

- Built and customized open source software (*Open Journal Systems*) for use by University of California faculty and students.
- Extended user interface and reworked backend logic and database for local use.
- Wrote server-side data processing scripts to migrate journals' data and workflows from existing software into OJS.
- Technologies used: PHP(5), MVC framework, MySQL, HTML, XML, XSLT, JavaScript, jQuery, AJAX, Linux

Dec 2009 -  
Nov 2010

**Software Developer.** University of California Humanities Research Institute (UCHRI).

- Designed and developed web site for accepting and processing applications for international media and learning competition.
- Supervised contract programmer and worked with non-technical staff to implement program functionality on tight schedule.
- Technologies used: PHP, MySQL, jQuery, javascript, AJAX, Pligg CMS, Git, KohanaPHP.

Jun 2008 -  
Dec 2009

**Web database geodata platform developer.** *Korean Folklore Project, Danish Folklore Project* and other *Nordic Mapping* projects. Employer: Prof. Tim Tangherlini, Scandinavian Section, UCLA.

- Designed and built extensible, robust MySQL and PostgreSQL databases to support large, geographical, foreign-language data sets.
- Coded user interface for browsing, searching, & editing data using PHP, MySQL, AJAX.
- Supervised work study students.

Jun 2008 -  
Jul 2009

**Lead Web Developer for Map-Based Second Learning Language Platform,** *Virtual Study Abroad* project (<http://vstudyabroad.cdh.ucla.edu/>). Dept. of Germanic Lang. & Lit., UCLA.

- Consulted with non-technical faculty to gather specs for building map-based online platform for teaching undergraduates foreign language.
- Worked with programmers and graduate students of varying technical skill levels to develop geo-centric website for presentation of multimedia materials. Site now used in classrooms at several universities around the U.S. and abroad.
- Technologies used: PHP, MySQL, AJAX, Google Maps API.

Jul 2005 -  
Jun 2007

**Co-Principal Investigator & Lead Developer,** *Hypercities* (<http://www.hypercities.com>) Dept. of Comparative Literature, UCLA.

- Worked with UCLA Center for Digital Humanities and UCLA Library staff to develop a technically strong application that also exemplifies humanities scholarship and point of view.
- Designed extensible, resilient database schema to support large multimedia dataset.
- Redesigned user interface to take advantage of underlying relational database, i.e. search, user input, login functionality as well as freely available mapping API technology.

Jan 1997 - Jul 2002	<ul style="list-style-type: none"><li>• Coded new UI and site functionality using PHP, MySQL, AJAX, Google Maps API.</li></ul> <p><b>Programmer/Analyst III</b>, IST-Communication &amp; Network Services, UC Berkeley.</p> <ul style="list-style-type: none"><li>• Designed, developed, coded, tested, delivered and maintained client/server database applications used by UC Berkeley campus customers and CNS in-house employees.</li><li>• Analyzed business processes, determined program specifications and layout via dialogue with users and co-workers.</li></ul>
<b>Leadership and Organizational Experience</b>	<p>Chair, Digital Humanities Common Knowledge Group, UC Libraries, Jan 2015 – Feb 2016.</p> <p>Chair, Public Knowledge Project (PKP) Technical Committee, 2014-15.</p> <p>Organizer, campCDL (CDL technologists day), Oakland, CA, Spring 2013 and Fall 2014 (AWS edition).</p> <p>Organizer, <i>THATCamp</i> (The Humanities and Technology Camp) <i>Bay Area</i>, Mountain View, CA, October 22-23, 2011 and San Francisco, CA, October 9-10, 2010.</p> <p>Organizer, <i>THATCamp SoCal</i>, Occidental College, Los Angeles, CA, March 13-14, 2010.</p>
<b>Education</b>	
Sep 2010	PhD in Comparative Literature, UCLA.
May 1996	BA in Comparative Literature, UC Berkeley, <i>cum laude</i>
1996 - 1998	<i>Intro to Programming using C, Unix Fundamentals, C++ Programming, Perl Programming</i> (among others), UC Berkeley CS Dept. & UC Berkeley Extension
<b>Languages</b>	German (near-native fluency) Spanish (fluent) French (reading & conversational competency) Mandarin Chinese (elementary)
<b>References</b>	Available Upon Request