

Education

- School of Information**, University of California, Berkeley; Master of Information Management and Systems May 2009
Brown University, Providence, Rhode Island; Bachelor of Arts May 2003
University of Melbourne, Australia; Study Abroad Spring 2002

Work Experience

Lead Designer & Feature Developer, **Web-based Inquiry Science Environment (WISE)** July 2009-present
Technology-Enhanced Learning in Science (TELS) Center, UC Berkeley Graduate School of Education

- Lead interaction, interface, and web designer for the Web-based Integrated Science Environment (<http://wise.berkeley.edu>)
- Develop and design features for WISE student, teacher, and curriculum authoring tools
- Technology-research liaison: facilitate collaboration among software developers, educational researchers, and users
- Provide technical and instructional support to teachers and students in the classroom
- Manage hardware and software purchases

San Francisco Salsa Festival Registration Manager 2010-present
John & Liz Productions, Oakland, CA

- Manage ticketing and registration for annual **San Francisco Salsa Festival**
- Implemented online registration system (customized installation of open-source CiviCRM resource management application)

Open Library Virtual Shelf May 2009
Masters Thesis, UC Berkeley School of Information

- Developed virtual bookshelf application for the **Open Library** project of the **Internet Archive**
- Performed feature analysis of digital libraries and online search and collaboration environments
- Interviewed and conducted participant observations of librarians and library patrons
- Created and field tested prototype built in Adobe Flash/Flex
- Production application built with a Javascript/HTML/CSS frontend, Ruby on Rails and MySQL backend

Graduate Student Researcher, Children's Storytelling & Programming with a Robotic Lifeform Fall 2008-Spring 2009
UC Berkeley School of Information

- Iteratively designed and tested a system to enable creative storytelling and introduce conditional programming concepts to children using the **Pleo robotic dinosaur**
- Utilized ReacTIVision computer vision framework; graphical user interface and communications written in the Processing language

Research Associate/Program Assistant, **Technology-Enhanced Learning in Science (TELS) Center** Oct 2003-June 2009
UC Berkeley Graduate School of Education

- Provided technical and instructional support to teachers and students in the classroom
- Developed and designed interactive features of online science curriculum units
- Redesigned and built TELS research consortium website (<http://telscenter.org/>) and accompanying citation library
- Designed and created publicity and publication materials
- Managed hardware and software inventories

Teaching Assistant, INFO 202: Information Organization and Retrieval Oct 2008-May 2009
UC School of Information

- Collaboratively designed and organized course materials for foundational School of Information graduate course
- Led weekly discussion sections and provided personalized feedback and student assistance

Teaching Assistant, ED158: Cross Cultural Perspectives on Child Development Spring 2003
Brown University Education Department

- Led weekly discussion sections and held office hours
- Graded exams and writing assignments

Student Researcher, Study of Chinese and American students' conceptions of the ideal learner Fall 2001-Spring 2003
Brown University Education Department

- Distributed and reviewed research surveys
- Categorized and coded survey responses

Student Researcher, Seminar development for incoming female engineering students

Summers 2001 & 2002

University of Massachusetts Computer Engineering Department

- Collaboratively adapted online courseware system for delivery on personal digital assistants
- Researched and reported on gender issues in higher education engineering fields

Selected Publications & Presentations

- Matuk, C. F., McElhane, K., King Chen, J., Miller, D., Lim-Breitbart, J., & Linn, M. C. (2012). The Idea Manager: A tool to scaffold students in documenting, sorting, and distinguishing ideas during science inquiry. In *The Future of Learning: Proceedings of the 10th international conference for the learning sciences*. Sydney, Australia: International Society of the Learning Sciences.
- Ryokai, K., Lee, M. J., & Breitbart, J. M. (2009, Oct 27-30). **Children's Storytelling and Programming with Robotic Characters**. Paper presented at the 7th Creativity & Cognition Conference, Berkeley, CA. **[Best Paper Award]**
- Ryokai, K., Lee, M. J., & Breitbart, J. M. (2009, April 4-9). **Multimodal Programming Environment for Kids: A "Thought Bubble" Interface for the Pleo Robotic Character**. Paper presented at CHI 2009: 13th International Conference on Human-Computer Interaction, Boston, MA.
- Breitbart J. & Blong D. (2009). The Virtual Shelf. Master of Information Management & Systems Final Report, School of Information, University of California, Berkeley.
- Breitbart, J. & Blong, D. (2008, October 27). The Virtual Shelf. Presentation at the Open Content Alliance Annual Meeting, San Francisco, CA.
- Breitbart, J. & Blong, D. (2008, July 25). The Virtual Shelf. Presentation at 'Mashup the Library', CARL North IT Workshop, Santa Clara, CA.
- Breitbart J., Balakrishnan D., & Ganz A. (2002). Pocket-IMPACT Software for Delivering Online Courseware on a PDA: Challenges, Design Guidelines and Implementation. 32nd ASEE/IEEE Frontiers in Education Conference, Boston, MA.

Computer Skills

Programming Languages:

- Javascript (& JQuery), HTML, CSS, JSON, XML, Actionscript 3, MXML
- Familiar with Java, PHP, Processing

Selected Software & Applications:

- Adobe Flash, Photoshop, Illustrator, Fireworks, Lightroom; CiviCRM; Drupal; Eclipse; Endnote; Filemaker Pro; iMovie; Inkscape; Joomla; Microsoft Office; Open Office; Git & SVN

Community Activities

- **Vice President, Information Management Student Association** (UC Berkeley School of Information)
- **Elementary School Tutor & Mentor** (KIDS Project, Swearer Center for Public Service, Brown University)
- **Tennis instructor & counselor** (Judy Dixon's Tennis School, University of Massachusetts)
- **Youth basketball coach** (Leisure Services, Amherst, MA)
- **Interests & hobbies:** Photography, cooking, athletics (tennis, softball, golf, basketball), fantasy sports, electronics/computers

References available on **request**.