

Charissa Lois Yang

SUMMARY

Well-rounded Web Programmer with science research and academic support background.
Additional expertise in animation, multimedia, usability, and medical/technical illustration.
Specialized in cross-platform, standards compliant code, and optimization of code/content for web.

RECENT WORK EXPERIENCE

Web/Multimedia Developer (self-employed, short-term and long-term contracts as noted)

Independent consultant, Rochester, New York and Portland, Oregon

1998 to present

- **Flash/Web Consultant**, Instructional Technologies, Inc., Vancouver, Washington. *Mar 2009 to present.*
Design, develop, and program graphical user interface and interactivity for truck driving simulator. Also, using CSS, HTML, javascript and *Photoshop*, revise UI for web interfaces for student and manager level administrative (lesson tracking) records for the company's extensive line of web-based driver safety courses.
- **Web Developer**, Needoba and Peterson Group, *Nov 2010 to Jan 2011* and, Tratnyek Group, *Aug 2010.*
Implement websites for two separate academic research groups within Oregon Health & Science University, using CSS, javascript, PHP, HTML. Integrate specified add-ons to site including *Lightbox*, *Google Calender*, *Google Analytics*, encryption of email addresses (as protection from spambot harvest) via *Hive Encoder*, for the Needoba/Peterson group, and *Plogger!* (picture viewer), *Google Calendar*, *Google Groups*, and a *PHP DL Lite* (user-friendly file uploader with automatically updating index embedded in web page) for Tratnyek group.
- **Medical Animator/Programmer**, Tolpa Studios, Seattle, Washington, *Mar 2008 to Feb 2011.*
Provide actionscript as needed to implement various interactivite portions of medical instructional animations. Occasional web and javascript consultation (e.g., *Lightbox* installation).
- **Flash Designer/Programmer**, Clarity Innovations, Portland, Oregon. *Oct 2008 to Aug 2009.*
Design vector animations. Update ActionScript, SWF, and XML components for an eLearning course.
- **Web Developer/Programmer**, Avatron Software, Vancouver, Washington, *Jul 2008 to Jul 2009.*
Design, produce, and maintain website for *iPhone* start-up company. Optimize website for *iPhone* viewing in addition to standard browsers. Graphic design including establishment of *logo usage guidelines* which I packaged with appropriate files into a downloadable *media kit*.
- **Designer/Developer** at Apple Inc., Vancouver, Washington, *Oct 2006 to May 2007.*
Design a broad variety of multimedia, including: animated symbols, lighting effects, animated text effects, animation of real objects (e.g., feathers), ornamentation for *Motion 3*, part of Apple's *Final Cut Studio*. Additionally, custom program in HTML, javascript and Applescript an in-house media viewer that auto-updates, dynamically detecting all new files stored locally, and updating associated menu options displayed.
- **Web Programmer** at CMD Agency, Portland, Oregon, *Sep 2006*
Create web page templates in hand-coded CSS, HTML, and javascript for a specific website project, given the design composites (layered Adobe Photoshop files). Code carefully crafted to be standards-compliant and consistent among standard browsers as well as across Mac and Windows.

Web Developer/Research Assistant II

Department of Biomedical Engineering, *Aug 2010 to present*

Department of Science & Engineering (*formerly the OGI School of Science & Engineering*), *May 2008-Aug 2010*

Oregon Health & Science University, School of Medicine, Portland, Oregon

- Implement, on a page-by-page basis, and also assist management and launch of a redesign of the website for the OHSU Department of Science & Engineering. Formerly known as OGI (originally, the Oregon Graduate Institute), the OHSU School Science & Engineering was transitioned from its status as a graduate school to a department, the Department of Science & Engineering, within the School of Medicine at the Oregon Health & Science University. DSE's new website needed both to conform to the new OHSU web standards as well as

be re-branded as a Department instead of a School within OHSU.

- Continued post-launch website support for the Department of Science & Engineering, for consulting and further web updates, as requested.
- The Department of Science & Engineering was reorganized in 2010; now each of its former units independently employ me, including the Department of Biomedical Engineering, the Center for Spoken Language Understanding and the Division of Environmental and Biomolecular Systems. Thus I was able to help rebrand/redesign their websites once again according to their new statuses during this transition.
- Additionally, as of May 2011, I am helping to establish the website for the new OHSU Center for Spatial Systems Biomedicine, using the CommonSpot CMS.

Web Content Coordinator

National Science Foundation Science and Technology Center for Coastal Margin Observation and Prediction
Oregon Health & Science University, OGI School of Science and Engineering, Beaverton, Oregon
Nov 2007 to Apr 2008

- Research, revise and create new web content for the Center website.
- Modify and design and/or program new templates for research posters, publicity materials, and web pages.
- Propose, design, code, and integrate User Interfaces for web applications produced by Center programmers.

Senior Developer/IT Manager

\$averCD, LLC, Lake Oswego, Oregon
Oct 2005 to Jul 2006

- Lead programmer for interactive multimedia CD-ROM (400,000 copies distributed quarterly).
- Implement new product User Interface and new *Search* feature in multimedia CD-ROM.
- Provide Flash animations and website support, including custom web statistical analyses.

Designer, Multimedia Engineer, and Project Manager (successive positions)

Corporate Communications, Inc., Rochester, New York
Jul 2000 to Oct 2005

- **Web/Multimedia Manager, Sep 2004 to Oct 2005**
Provide estimates and proposals. Support projects by training team members, procuring assets, and providing design and programming support to team. Encourage continued client relationships by recommending new solutions and anticipating future needs. Ensure product quality by enforcing style and branding guidelines, testing, and troubleshooting. Oversee web and multimedia localization and QA.
- **Multimedia Engineer, Jun 2002 to Sep 2004**
Program variety of web and multimedia projects including Web-based applications, CD-ROMs, and integrated kiosk solutions. Optimize playback and image/audio/video compression formats for specific target delivery formats, often including multiple browsers and platforms. Manage QA as needed.
- **Interactive Graphic Designer, Jul 2000 to Jun 2002**
Illustrate, design, develop, and program for a variety of projects in multimedia, web, and print formats, for clients such as Haley and Aldrich, Eastman Kodak Company, William Smith College.

Adjunct Faculty

Rochester Institute of Technology, Rochester, New York. *Aug to Nov 2003*

- Develop curriculum for and taught college course in Macromedia Flash: 2D Animation and Interactivity.
- Taught undergraduate and graduate illustration and medical illustration students.

Software Developer

Neo/SCI Corporation, Rochester, New York
May 1999 to Apr 2000

- Program richly interactive science educational CD-ROMs for Macintosh and Windows, with great attention to cross-platform compatibility.
- Create original graphics illustrating lab exercises.
- Design layouts for posters and catalog inserts.

Assistant to the Chair

Foundations Department, Rochester Institute of Technology, Rochester, New York. *Fall 1998 to Spring 1999*

- Schedule and coordinate official faculty reviews of incoming freshman applicants' art portfolios to the School.
- Develop and manage databases for the department chair.
- Invoicing and light accounting, purchase order processing, bank deposits.

Faculty Research Assistant

Oregon State University – Central Oregon Agricultural Research Center, Madras, Oregon. *Jan 1996 to Jul 1997*

- Managed data and sample collection and statistical analyses as applied to plant, soil, and water quality.
- Wrote and edited abstracts and manuscripts for scientific journal publication.
- Supervised field and lab assistants.
- Presented research at community outreach workshops and professional conferences.
- Visited individual sites within the community for consultation regarding soil and water management.

Graduate Research Assistant

Department of Crop and Soil Sciences, Cornell University, Ithaca, New York. *May 1992 to Spring 1995*

- Analyze data and present findings.
- Collect and process plant, water, and soil samples and other data throughout 3+ years of a research project.
- Help train and manage high school and undergraduate research interns and field and lab assistants.

Teaching Assistant Trainer

Division of Biological Sciences, Cornell University, Ithaca, New York. *Fall 1994 to Spring 1995; Aug 1995*

- Train and evaluate 25 undergraduate and graduate TAs for an intro college course in biology for bio majors.
- Conduct *microteaching* videotape-and-playback teaching workshops in small groups.
- Review and provide feedback on teaching assistant lectures, quizzes, and grading.

Biology Teaching Assistant

Division of Biological Sciences, Cornell University, Ithaca, New York. *Fall 1993 to Spring 1994*

- Provide one-on-one tutoring to students taking introductory biology for biology majors.
- Lecture; lead recitations and laboratory exercises. Compose and administer quizzes.

Soil Science Teaching Assistant

Department of Crop and Soil Sciences, Cornell University, Ithaca, New York. *Spring 1993*

- Lead laboratory exercises, conduct office hours. Teach 2 of the 4 lab sections for the course.
- Direct weekly physical preparation of laboratory.

Undergraduate Field and Lab Research Assistant

Department of Crop and Soil Sciences, Cornell University, Ithaca, New York. *Summer 1991 to Spring 1992*

- Help install and maintain field instrumentation and lab equipment. Collect, prepare, and analyze soil samples; collect data such as soil moisture, soil infiltration, soil water potential.

EDUCATION

MFA, 1999. Medical Illustration. Interactive Multimedia minor. Rochester Institute of Technology.

MS, 1996. Soil Science. Cornell University.

BS, 1992. Biological Sciences. Cornell University.

Additional coursework in web programming, web design, java programming.

PROFESSIONAL DEVELOPMENT

Memberships

- Association of Medical Illustrators – Professional Member (2004 to 2008)
- Association of Medical Illustrators Website Committee Vice Chair (2006 to 2007)
- Association of Medical Illustrators Website Committee Member (2005 to 2006)
- Greater Rochester Macromedia Users Group (2001 to 2005)
- Rochester Flash Users Group (2005)

Conferences and Workshops

- Colin Mook Flash ActionScript Boot Camp, Rochester, NY (2005)
- Association of Medical Illustrators Annual Meeting, Los Angeles (2005)
- Association of Medical Illustrators Annual Meeting, Cleveland (2004)
- php | works - 2004 PHP conference, Toronto (2004)
- Macromedia Beginning Macromedia Flash MX Seminar, Rochester, NY (2002)

Industry Awards and Honors

- Davey Award for \$averCD, *Interactive Multimedia Gold Award* – *Direct Marketing* category (2006)
- Davey Award for \$averCD, *Interactive Multimedia Gold Award* – *Sales* category (2006)
- PRism Award for Total Compensation CD-ROM, *Interactive CD* – *Corporate* category (2003)
- Scienceman 4.5 out of 5 ranking for Blood and the Circulatory System CD-ROM (2001)

SELECTED WEBSITE CREDITS*

www.kodak.com** (misc portions, HTML, XML, back-end, and web apps)

www.lasermax.com (customized events, news, and dealer database CMS)

www.corporatecomm.com (customized news CMS based on PHP and MySQL)

www.avatron.com** (website design, CSS, HTML, javascript, front end integration with Phorum, iPhone optimization)

www.shastaTPA.com (CSS, HTML, javascript)

www.firstpreshf.org (entire web design CSS/HTML, custom CMS using PHP, MySQL)

www.overseasHH.org** (entire web design CSS/HTML, custom CMS using PHP, MySQL)

www.ebs.ogi.edu/tratnyek/ (CSS, HTML, javascript, and integration with PHP DL and Google Calendar, Google Groups)

www.ebs.ogi.edu/biogeochem/ (CSS, HTML, javascript, and integration with Google Calendar, Google Analytics, Lightbox)

**For some of the sites listed, the current site may no longer reflect my work or design. Please see charissayang.com for true samples of my work, including some [archived](#) versions of sites which represent my design [and](#) front [and](#) back-end programming work.*

***The [current](#) versions of these sites have undergone significant redesign since I contributed towards them, and the current designs (look and feel) are not at all my work, although some functionality and content are still my contribution.*