

UTAKO UEDA
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LANGUAGES & FRAMEWORKS

- Ruby
- Ruby on Rails
- Javascript
- CSS
- Backbone.js
- SQL, PostgreSQL
- Node.js
- HTML5, CSS5
- Software: Adobe Creative Suite, Microsoft Office Suite, Solidworks, Origin, Labview, Mathematica
- Robot and circuit design, programming and fabrication

WORK EXPERIENCE

Research Associate

DEPARTMENT OF RADIATION ONCOLOGY
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

JULY 2009 TO SEPTEMBER 2013
SAN FRANCISCO, CA

- Managed research projects to optimize performance of deformable image registration algorithms for future safe and reliable use in radiation oncology treatment planning
- Developed methodology to test algorithms using Matlab and Ruby
- Collaborated closely with a team of medical physicists, physicians and medical software company engineers

Research Assistant

PULSED POWER LABORATORY • CENTER FOR ENERGY RESEARCH
UNIVERSITY OF CALIFORNIA, SAN DIEGO

MARCH 2005 TO SEPTEMBER 2008
SAN DIEGO, CA

- Ran experiments for measurement of plasma jets and x-ray output produced by wire ablation
- Designed and fabricated experimental machines and tools
- Data acquisition and analysis for publication
- Modeled complex plasma interaction using C++ and Fortran

Design Editor

THE MUIR QUARTERLY
UNIVERSITY OF CALIFORNIA, SAN DIEGO

SAN DIEGO, CA
SEPTEMBER 2004 TO JUNE 2007

- Redesigned print satire newspaper to allow for more content, flexibility and a modern look
- Taught and managed a team of designers for biquarterly production
- Wrote design handbook for future staff members
- Designed recruitment and promotional posters and advertisements

Designer

UCSD GUARDIAN
UNIVERSITY OF CALIFORNIA, SAN DIEGO

SAN DIEGO, CA
SEPTEMBER 2004 TO JUNE 2006

- Collaborated on a team to design features and arts & entertainment newspaper print sections for biweekly production
- Assisted in print redesign

MISCELLANEOUS SKILLS & INTERESTS

- Three years machine shop experience (teaching and machining)
- Native written and spoken English and Japanese
- Excellent communication & organizational skills
- Interests: Backpacking, playing music, cycling & beer

EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO
REVELLE COLLEGE

FALL 2003 TO FALL 2007

- Degrees: BS in Physics, Minor in Political Science
- Relevant Courses: Galaxy Modeling (C), Robot Design (C++, Assembly), Graduate Statistical Mechanics
- Senator, Society of Physics Students

PUBLICATIONS AND AWARDS

- CO-AUTHOR: Kirby N, Chuang C, Ueda U, Pouliot J. *The Need for Application-Based Adaptation of Deformable Image Registration*. Med. Phys. 40 (1), 011702, 2013.
- SPEAKER: American Association of Medical Physics Annual Meeting • 2012 • 2010
- CO-AUTHOR: Bott SC, Haas DM, Eshaq Y, Ueda U, Madden R, Collins G, Beg FN. *Ablation Studies of Low-Number Wire Arrays at 200-kA Using a Linear Transformer*. IEEE Trans. Plasma Sci., Vol. 38, no. 4, pp. 567-573, April 2010.
- CO-AUTHOR: Bott SC, Haas DM, Eshaq Y, Ueda U, Lebedev SV, et al. *Quantitative Measurements of Wire Ablation in Tungsten X-Pinches at 80-kA*. IEEE Trans. Plasma Sci., Vol. 36, no. 5, pp. 2759-2764, Oct. 2008.
- AWARD: Earl Dolnick Award for Robot Design and Creation • 2007
- AWARD: Eureka! Award for Best Poster and Presentation in Engineering • 2007
- SPEAKER: UC San Diego Undergraduate Research Conference • 2007
- AWARD: First Place for Features Page Design, California College Media Association • 2006