Sohei Okamoto

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Education

Dec 2011	**Ph.D. in Computer Science and Engineering**	**University of Nevada, Reno**

Dissertation: SUNPRISM: A Software Framework for Climate Change Research

Dec 2005	**M.S. in Computer Science**	**University of Nevada, Reno**

Thesis: WIDE: Web Interface Development Environment

Aug 2003	**B.A. in Psychology** (Minor: Computer Science)	**University of Nevada, Reno**

Skills

C++, Java, Python, OpenGL, Qt, Multi-threading, XML, Web Service

PHP, MySQL, HTML, CSS, Javascript, Flash/Actionscript, Linux, server configuration

Excel, Visual Basic, SPSS, Xcode, Objective-C

Professional Work Experience

Apr 2009 – Dec 2011	**Research Assistant**	**Dept. of Computer Science and Engineering,**
Jan 2012 – Present	**Postdoctoral Scholar**	**University of Nevada, Reno, NV**

Developed a new software framework to support collaborations in climate change research, with visual dataflow interface and capabilities for automatic code generation and immersive data visualization.

Mar 2004 – Jul 2009	**Graduate Assistant**	**Disability Resource Center,**
		University of Nevada, Reno, NV

Developed a database web application to track alternative text requests and production, a survey management system to create online surveys, and an interactive text-to-speech application for Mac OS.

May 2007 – Mar 2010	**Research Assistant**	**Dept. of Internal Medicine,**
		University of Nevada, Reno, NV

Developed new tools to assess energy balance in practice, with cascaded circular slide rules to estimates total energy expenditure and energy intake, using Mifflin-St Jeor equation (MSJE).

Oct 2006 – Jan 2009	**Research Assistant**	**Dept. of English,**
		University of Nevada, Reno, NV

Developed an interactive on-line reports generator and data exporter for sociolinguistics experiments. Generated various graphical charts in Excel for data visualization, and various statistical reports in SPSS.

Dec 2006 – May 2007	**Research Assistant**	**Quadrant-One, Inc., Washington, DC**

Developed an Excel-based project management tool for cost, duration, and rework analysis.

May 2002 – Aug 2002	**Research Assistant**	**IBM Almaden Research Center, San Jose, CA**
May 2003 – Aug 2003	**Research Assistant**	

Developed a genomic analysis tool using signal processing algorithms to detect salient changes. Developed object recognition and verification algorithms using computer vision techniques.