Resume

Name: YONG WAN

Date of Birth: June-23-1981

Work Address: 72 S Central Campus Dr, 3616 Warnock Eng bldg, Salt Lake City, UT 84112, USA

Mobile Phone: 8015604184

E-mail: wanyong@cs.utah.edu

Education

August 2007 – August 2013	University of Utah
	Salt Lake City, USA
	PhD in Computing
	Computer graphics and visualization
September 1999 – June 2003	Southeast University
	Nanjing, China
	Bachelor of Science
	Control system

Employment

June 2014 – Now	Scientific Computing and Imaging Institute, University of Utah
	Salt Lake City, USA
	Postdoctoral Research Associate
	Visualization technique research & software development
June 2013 – June 2014	Scientific Computing and Imaging Institute, University of Utah
	Salt Lake City, USA
	Postdoctoral Fellow
	Visualization technique research & software development
June 2008 – June 2013	Scientific Computing and Imaging Institute, University of Utah
	Salt Lake City, USA
	Graduate Research Assistant
	Visualization technique research & software development
August 2007 – May 2008	School of Computing, University of Utah

Salt Lake City, USA

Teaching Assistant

3D character modeling and animation / DirectX game programming

EAE program

Projects

FluoRender

I am working as the designer and developer of FluoRender, an open-source software system for visualizing and analyzing fluorescence microscopy data from biomedical research. The project has been supported by a series of grants from NIH. The resulting system has been serving the biomedical research community for nearly ten years. Over 100 scientific publications reported to adopt the system. Its results also featured in journal covers, image competitions, and science websites. Computing techniques that lead the development of the system were also reported in the ten publications that I authored (see below).

Main URL: http://www.sci.utah.edu/software/fluorender.html

Code and downloads: https://github.com/SCIInstitute/fluorender

Publications

Yong Wan and Charles Hansen. Uncertainty footprint: visualization of nonuniform behavior of iterative algorithms applied to 4D cell tracking. *Computer Graphics Forum (EuroVis 2017)*, Volume 36, Number 3, pp. 479-489, 2017.

Yong Wan, Hideo Otsuna, Holly A. Holman, Brig Bagley, Masayoshi Ito, A. Kelsey Lewis, Mary Colasanto, Gabrielle Kardon, Kei Ito and Charles Hansen. FluoRender: joint free-hand segmentation and visualization for many-channel fluorescence data analysis. *BMC Bioinformatics*, 18:280, 2017.

Yong Wan, Hideo Otsuna, Kristen Kwan and Charles Hansen. Real-time dense nucleus selection from confocal data. *Eurographics Workshop on Visual Computing for Biology and Medicine* 2014, Vienna, Austria, September 2014.

Yong Wan. *FluoRender, an Interactive Tool for Confocal Microscopy Data Visualization and Analysis*. PhD thesis, University of Utah, Salt Lake City, USA, August 2013.

Yong Wan, Hideo Otsuna and Charles Hansen. Synthetic brainbows. *Computer Graphics Forum (EuroVis 2013)*, Volume 32, Number 3, pp. 471-480, 2013.

Yong Wan, Hideo Otsuna, Chi-Bin Chien and Charles Hansen. Interactive extraction of neural structures with user-guided morphological diffusion. *IEEE Symposium on Biological Data Visualization*, pp. 1-8, Seattle, USA, October 2012.

Yong Wan, Alice Kelsey Lewis, Mary Colasanto, Mark van Langeveld, Gabrielle Kardon and Charles Hansen. A practical workflow for making anatomical atlases for biological research. *IEEE Computer*

Graphics and Applications, Volume 32, Issue 5, pp. 70-80, 2012.

Yong Wan, Hideo Otsuna, Chi-Bin Chien and Charles Hansen. FluoRender: an application of 2D image domain methods for 3D and 4D confocal microscopy data visualization in neurobiology research. *IEEE Pacific Visualization 2012*, pp. 201-208, Incheon, Korea, February 2012.

Yong Wan and Charles Hansen. Fast volumetric data exploration with importance-based accumulated transparency modulation. *IEEE/EG Symposium on Volume Graphics 2010*, pp. 61-68, Norrkoping, Sweden, 2010.

Yong Wan, Hideo Otsuna, Chi-Bin Chien and Charles Hansen. An interactive visualization tool for multi-channel confocal microscopy data in neurobiology research. *IEEE Transactions on Visualization and Computer Graphics (VIS 2009)*, Volume 15, Number 6, pp. 1489-1496, 2009.

Honors

Best Poster, 2016 BioVis.

Winner, 2012 FASEB Bio-Art Competition.

Image of Distinction, 2012 Nikon SmallWorld Photomicrography Competition.

Travel History

Presenter at the IEEE BioVis, Oct 23, 2016, Baltimore, USA.

Visiting consultant at Janelia Farm Research Campus, Howard Hughes Medical Institute, Aug 7-13, 2013, Chevy Chase, USA.

Speaker at the Eurographics Conference on Visualization, Jun 17-21, 2013, Leipzig, Germany.

Speaker at the visualization symposium at Peking University, Apr 10, 2013, Beijing, China.

Presenter at the MSA Microscopy & Microanalysis, Jul 29-Aug 2, 2012, Phoenix, USA.

Speaker at the IEEE Symposium on Biological Data Visualization, Oct 14-15, 2012, Seattle, USA.

Speaker at the IEEE Pacific Visualization, Feb 28-Mar 2, 2012, Songdo, Korea.

Speaker at the IEEE Visualization Conference, Oct 11-16, 2009, Atlantic City, USA.