

Hongwei Li

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Skills

- Technical cracker. I like solving problems.
- Good written and spoken English

Education

Aug. 2006 - Aug. 2010

PhD, Computer Science and Engineering, Hong Kong University of Sci. and Tech. (HKUST), Hong Kong

- Advisors: Dr. Pedro V. Sander and Dr. Chi-Wing Fu.
- Area of study: Computer Graphics.
- GGA : 9.93 (A-).

Sep.2004 – June 2006

Master, Computer Science and Engineering, Zhejiang University, P. R. China

- Advisor: Prof. Sanyuan Zhang and Prof. Xiuzi Ye
- Area of study: Computer-Aided Design.

Sep. 2000 - June 2004

B.E., Computer Science and Engineering, Zhejiang University, P. R. China

- Mixed class, Chu Kochen Honors College.
- Overall GPA 3.69/4.00, Major GPA 3.88/4.00, Top 5%.

Work Experience

Dec. 2016– Now

CTO, Modelo, Inc

- First engineer of the company. I built the Modelo core technology from ground with solo hand and am still the main contributor to the entire code base of company products. Now I lead the R&D team.

Feb. 2015 – Dec. 2016

Senior GPU Architect, Graphics Hardware Team, Nvidia Shanghai

- Worked on GPU graphics units frontend design in GPU hardware design team. The work include several features in current generation of Nvidia GPU, i.e., Volta.

Apr. 2013 – Feb. 2015

Member of Technical Staff, Graphics Technology Initiatives, Advanced Micro Devices(Shanghai)Co. Ltd

- Research general graphics rendering high performance computing and problems.
- Marketing technical support; back up marketing and sales team in business negotiation and marketing actions

Apr. 2012 – May 2013

Manager, Rightware Oy, Shanghai, China

- Project management; oversee customer project work flow from requirement collection to final delivery and quality guarantee.
- Technical pre-sales for Kanzi products; worked closely with VP of sales in customer contact; built relationship with domestic major players, e.g., Lenovo, Gionee, Desay and etc.
- Lead engineer who is the architect and reviewer of all China projects.

Apr. 2011 – March 2012

Senior Engineer, AMD Design and Research Center, Shanghai, China

- OpenGL driver development (Windows and Linux)
- First runner-up in AMD internal OpenCL contest.
- OpenGL training session lecturer.

Sep. 2010 – April 2011

Postdoc (joint project), Department of Electrical & Computer Engineering, NUS, Singapore

Visiting Scholar, Internet Graphics Group, Microsoft Research Asia (MSRA), Beijing, China

- A new approach for efficient Bidirectional texture function (BTF) acquisition (A joint project with MSRA).

May 2004 - Feb. 2005

Software Engineer, R&D Department, Onewave Technologies, Hangzhou, China

- I was network application software engineer. I did user login module for VOD server (TV cable network of Hangzhou) and stream content caching module for a VOD stream server. dual-config module of DNS server.

Dec. 2003 - April 2004

Research Intern, Bell Labs Research China (BLRC), Beijing, China

- Test engineer for VMS (voice message system) black box testing.
- Programmer for uIM, text message gateway between GSM and internet running in Linux.

Publications

Dongsoo Han and **Hongwei Li**, *Grass rendering and simulation with LOD*. GPU Pro 6, A K Peters, 2015

Zengzhi Fan, **Hongwei Li**, Karl Hillesland and Bin Shen, *Simulate and Render Millions of Grass Blades*, ACM SIGGRAPH Interactive 3D Graphics and Games (I3D), 2015

Hongwei Li, Li-Yi Wei, Pedro V. Sander and Chi-Wing Fu. *Anisotropic blue noise sampling*. To appear at ACM Transactions on Graphics (TOG), (ACM SIGGRAPH Asia 2010), Dec 2010

Hongwei Li, Diego Nehab, Li-Yi Wei, Pedro V. Sander and Chi-Wing Fu. *Fast Capacity Constrained Voronoi Tessellation*. Poster, ACM The ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games (I3D), Feb.2010

Kui-Yip Lo, Chi-Wing Fu and **Hongwei Li**. *3D Polyomino Puzzle*. ACM Transactions on Graphics (TOG), (ACM SIGGRAPH Asia 2009), Vol.28, no. 5, 2009

Hongwei Li, Li-Yi Wei, Pedro V. Sander and Chi-Wing Fu. *Anisotropic Poisson disk sampling*. HKUST Report, HKUST-CS-09-02, April 2009

Hongwei Li, Chi-Wing Fu and Andrew J. Hanson. *Visualizing Multiwavelength Astrophysical Data*. In IEEE Transactions on Visualization and Computer Graphics (TVCG), (Proceedings of IEEE Visualization 2008), vol.14, No.6, pp. 1555-1562, Nov 2008

Hongwei Li, Kui-Yip Lo, Chi-Wing Fu, and Mang-Kang Lenung. *Dual Poisson-Disk Tiling: An Efficient Method for Distributing Features on Arbitrary Surfaces*. In IEEE Transactions on Visualization and Computer Graphics (TVCG), Vol 14, No.5, pp. 982-998, 2008

Hongwei Li, Chi-Wing Fu, Yinggang Li, and Andrew J. Hanson. *Visualizing Large-Scale Uncertainty in Astrophysical Data*, In IEEE Transactions on Visualization and Computer Graphics (TVCG), (Proceedings of IEEE Visualization 2007), Vol.13, No.6, pp.1640-1647, Nov, 2007

Kui-Yip Lo, **Hongwei Li**, Chi-Wing Fu, and Tien-Tsin Wong. *Interactive Reaction-Diffusion on Surface Tiles*. In Pacific Graphics 2007, oral paper, Maui, Hawaii, pp. 65-74, Nov. 2007.

Services

2009,2011, 2012, 2013

Reviewer

- GMOD 2013.
- IEEE Pacific Graphics 2012.
- ACM SIGGRAPH 2012.
- IEEE Visualization 2009.
- ACM SIGGRAPH 2011.

2003-2004

Administrator, 88 Bulletin Board System, Zhejiang University,

- Administrated the Linux development section.
- Organized the member meeting, invited guest to talk and gave talks myself.

2002-2003

Director assistant of network department, university student union, Zhejiang University,

- Created student union website; daily maintainence of website server.

2001-2002

Vice president of network department, Chu Kechen college student union, Zhejiang University

- Consultant for the network problem of students.
- Created school student union website.

Awards

- Zhejiang University, Second-class Scholarship, Oct 2003
- Zhejiang University, "Three Goods" Student, Oct 2003
- Zhejiang University, Third-class Scholarship, Dec 2002
- Zhejiang University, Scholarship for Freshman, Dec 2000

Portfolio (Project demo)

Watch online http://v.youku.com/v_show/id_XMjQwNzg0NDUy.html (old)