

# Jerry O. Talton

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## EDUCATION

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<b>Stanford University</b> , Stanford CA PhD in Computer Science, June 2011 Dissertation: <i>Algorithms for Exploring and Controlling Procedural Models</i> Committee: Noah Goodman, Pat Hanrahan, Vladlen Koltun, and Radomír Měch	2005 - 2011
<b>University of Illinois at Urbana-Champaign</b> , Urbana IL MS in Computer Science, May 2005 Thesis: <i>Voronoi Splatting for Point-Based Surface Visualization</i> Advisor: John C. Hart BS in Computer Science, Minor in Mathematics, December 2003	2000 - 2005
<b>Thomas Jefferson High School for Science and Technology</b> , Alexandria VA Governor's Advanced Studies Diploma	1996 - 2000

## INDUSTRY EXPERIENCE

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<b>Search, Learning, &amp; Intelligence Manager</b> , Slack Technologies (New York NY)	2017 - present
<b>Founder &amp; CEO</b> , Apropose, Inc. (Mountain View CA)	2013 - 2016
<b>Research Scientist</b> , Intel Corporation (Hillsboro OR)	2011 - 2013
<b>Procedural Imaging Intern</b> , Adobe Systems Inc. (San Jose CA)	Summer 2009
<b>Software Intern</b> , NVIDIA (San Jose CA)	Summer 2007
<b>Architecture Intern</b> , NVIDIA (San Jose CA)	Summer 2005
<b>Computer Scientist Assistant</b> , SAIC/DEMACO (Champaign IL)	2001 - 2002
<b>Intern</b> , SAIC (Falls Church VA)	Summer 2001

## RESEARCH EXPERIENCE

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<b>Researcher in Residence</b> , Intel Science and Technology Center for Visual Computing	2012 - 2013
<b>Graduate Research Assistant</b> , Stanford Graphics Lab	2005 - 2012
<b>Research Assistant</b> , UIUC Graphics Lab	2004 - 2005

## TEACHING EXPERIENCE

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<b>Course Assistant</b> , Stanford's CS 448e: Computational Aesthetics and Creativity Support	Spring 2010
<b>Course Assistant</b> , Stanford's CS 348b: Image Synthesis	Spring 2009
<b>Stanford Teaching Fellow</b> , Stanford's CS 148: Introductory Computer Graphics	Summer 2007
<b>Course Assistant</b> , Stanford's CME 306: Numerical Solutions of PDEs	Spring 2007
<b>Course Assistant</b> , Stanford's CS 205: Mathematical Models for Vision, Robotics, and Graphics	Fall 2006
<b>Visiting Lecturer</b> , UC Santa Cruz's CMPS 160: Introduction to Computer Graphics	Spring 2006
<b>Teaching Assistant</b> , UIUC's CS 105: Introduction to Computing for Non-Technical Majors	Spring 2004

## REFEREED PAPERS

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Haizi Yu, Biplab Deka, Jerry O. Talton, and Ranjitha Kumar. **Accounting for Taste: Ranking Curators, Creators, and Content in Social Networks**. *Proceedings of the 35th Annual ACM SIGCHI Conference on Human Factors in Computing Systems*, May 2016

Ranjitha Kumar, Arvind Satyanarayan, Cesar Torres, Maxine Lim, Salman Ahmad, Scott R. Klemmer, and Jerry O. Talton. **Webzeitgeist: Design Mining the Web**. *Proceedings of the 31st ACM SIGCHI Conference on Human Factors in Computing Systems*, May 2013. BEST PAPER AWARD

Jerry O. Talton, Lingfeng Yang, Ranjitha Kumar, Maxine Lim, Noah D. Goodman, and Radomír Měch. **Learning Design Patterns with Bayesian Grammar Induction**. *Proceedings of the 25th ACM Symposium on User Interface Software and Technology*, October 2012. BEST PAPER NOMINEE

Ranjitha Kumar, Jerry O. Talton, Salman Ahmad, Tim Roughgarden, Scott R. Klemmer. **Flexible Tree Matching**. *Proceedings of the 22nd International Joint Conference on Artificial Intelligence*, July 2011. INVITED PAPER

Ranjitha Kumar, Jerry O. Talton, Salman Ahmad, Scott R. Klemmer. **Bricolage: Example-Based Retargetting for Web Design**. *Proceedings of the 29th ACM SIGCHI Conference on Human Factors in Computing Systems*, May 2011. BEST PAPER AWARD

Jerry O. Talton, Yu Lou, Steve Lesser, Jared Duke, Radomír Měch, and Vladlen Koltun. **Metropolis Procedural Modeling**. *ACM Transactions on Graphics* 30(2). PRESENTED AT SIGGRAPH 2011

Jerry O. Talton, Daniel Gibson, Lingfeng Yang, Pat Hanrahan, and Vladlen Koltun. **Exploratory Modeling with Collaborative Design Spaces**. *ACM Transactions on Graphics* 28(5). PROCEEDINGS OF SIGGRAPH ASIA 2009

Frank Losasso, Jerry O. Talton, Nipun Kwatra, and Ron Fedkiw. **Two-way Coupled SPH and Particle Level Set Fluid Simulation**. *IEEE Transactions on Visualization and Computer Graphics*, Volume 14, Number 4, July/August 2008.

Jerry O. Talton and Darren Fitzpatrick. **Teaching Graphics with the OpenGL Shading Language**. *Proceedings of the 38th SIGCSE Technical Symposium on Computer Science Education*, March 2007.

Jerry O. Talton, Daniel L. Peterson, Sam Kamin, Deborah Israel, and Jalal Al-Muhtadi. **Scavenger Hunt: Computer Science Retention Through Orientation**. *Proceedings of the 37th SIGCSE Technical Symposium on Computer Science Education*, March 2006.

Jerry O. Talton, Nathan A. Carr, and John C. Hart. **Voronoi Rasterization of Sparse Point Sets**. *Proceedings of the 2nd Eurographics Symposium on Point-Based Graphics*, June 2005.

## REFEREED NOTES

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Biplab Deka, Haizi Yu, Devin Ho, Zifeng Huang, Jerry O. Talton, and Ranjitha Kumar. **Ranking Designs and Users in Online Social Networks**. *Extended Abstracts of the 33rd ACM SIGCHI Conference on Human Factors in Computing Systems*, April 2015.

Ranjitha Kumar, Jerry O. Talton, Salman Ahmad, Scott R. Klemmer. **Data-driven Web Design**. *Proceedings of the 29th International Conference on Machine Learning*, June 2012. INVITED APPLICATIONS PAPER

## TECHNICAL REPORTS AND THESES

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Maxine Lim, Ranjitha Kumar, Arvind Satyanarayan, Cesar Torres, Jerry O. Talton, Scott R. Klemmer. **Learning Structural Semantics for the Web**. *Stanford University CSTR 2012-03*, November 2012.

Jerry O. Talton, Daniel Gibson, Pat Hanrahan, and Vladlen Koltun. **Collaborative Mapping of a Parametric Design Space**. *Stanford University CSTR 2008-01*, January 2008.

Jerry O. Talton. **Algorithms for Exploring and Controlling Procedural Models**. *Doctoral dissertation, Stanford University*, June 2011.

Jerry O. Talton. **Voronoi Splatting for Point-Based Surface Visualization**. *Master's thesis, University of Illinois at Urbana-Champaign*, May 2005.

Jerry O. Talton and Devin L. Mullins. **Strategies for Multimedia Classification**. *Senior thesis, University of Illinois at Urbana-Champaign*, May 2003.

## PATENTS

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Jerry O. Talton, Ranjitha Kumar, Maxine Lim, Dan Fike, Yi-Ting Yeh, and Ningxia Zhang. **System and Method for Extracting and Searching for Design**, *US Patent Application PCT/US16/25742*, filed April 2016.

Radomír Měch and Jerry O. Talton. **Method and Apparatus for Interpolating Hierarchical Procedural Models**, *US Patent 9292941*, filed September 2009, granted March 2016.

## HONORS AND AWARDS

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ACM CHI Best Paper Award ( <i>Webzeitgeist</i> )	2013
ACM UIST Best Paper Nomination ( <i>Grammar Induction</i> )	2012
ACM CHI Best Paper Award ( <i>Bricolage</i> )	2011
Qualcomm Innovation Fellowship, Finalist	2009
Intel Foundation PhD Fellowship	2008 - 2009

NVIDIA Fellowship	2007 - 2008
NSF Graduate Research Fellowship Competition, Honorable Mention	2005, 2006
Stanford University School of Engineering Fellowship	2005
Listed in UIUC's Incomplete List of Teachers Ranked as Excellent by their Students	2004
UIUC Dean's List	2002 - 2003
National Merit Semi-Finalist	1999

## INVITED TALKS & PANELS

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<b>Exploring the Ethics of AI Powered Products.</b> Tow Center's Artificial Intelligence: Practice and Implications, <i>New York, NY.</i>	June 2017
<b>People, Too.</b> NYC Media Lab's Machines + Media, <i>New York, NY.</i>	April 2017
<b>Design Thinking for Scientists &amp; Engineers.</b> Harvey Mudd College, <i>Claremont, CA.</i>	October 2016
<b>Robust to Luck.</b> ACM Reflections   Projections, <i>Urbana, IL.</i>	October 2015
<b>How Academic Research in Procedural Modeling Hurts Everyone, Everywhere.</b> University of Illinois Computer Graphics Colloquium, <i>Urbana, IL.</i>	February 2015
<b>From Grammars to Programs.</b> University of California, Berkeley, Computer Graphics Seminar, <i>Berkeley, CA.</i>	April 2011

## SELECTED PRESS AND MEDIA COVERAGE

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- Katherine Bourzac. [Tools for Better Web Design](#). *MIT Technology Review*, 4/27/11.
- Roland Piquepaille. [A Scientific Oscar Goes To Stanford](#). *ZDNet*, 2/4/08.
- Erica Naone. [3-D Design for the Masses](#). *MIT Technology Review*, 1/17/2008.
- Roland Piquepaille. [Build Your Own Virtual 3D Trees](#). *ZDNet*, 1/10/08.
- Ian Lamont. [Dryad and the 3D Modeling Challenge](#). *Computerworld*, 1/7/08.
- John Timmer. [Researchers Hope to Enable Crowdsourcing of Virtual Worlds](#). *ars technica*, 12/30/07.

## SERVICE AND AFFILIATIONS

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Reviewer for AIEDAM (2016), CGI (2013), CGF (2011), CHI (2013), Eurographics (2010, 2012, 2013, 2015), ITiCSE (2007, 2009), SIGCSE (2007 - 2011), SIGGRAPH (2012 - 2015), SIGGRAPH Asia (2011 - 2014), TOG (2012), TVCG (2014), UIST (2012)	
Member (appointed), UIUC Senate Committee on Educational Policy	2005
Member (elected), UIUC CS Courses and Curricula Committee	2004
Graduate Member at Large, UIUC CS Student Advisory Council	2003 - 2005

## REFERENCES

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Available upon request