

Steven M. Seitz

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Work Address

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Education

1997	Ph.D.	University of Wisconsin, Madison	Computer Sciences
1991	B.A.	University of California, Berkeley	Computer Science, Mathematics

Work Experience

2014-	Robert E. Dinning Professor	School Comp. Sci. and Eng., University of Washington
2016-	Director Teleportation	Google Corporation
2018-	Chairman	UW Reality Lab
2008-	Professor	Dept. Comp. Sci. and Eng., University of Washington
2010-	Technical Staff	Google Corporation
2005-2008	Short-Dooley Career Dev. Professorship	Dept. Comp. Sci. and Eng., University of Washington
2003-2008	Associate Professor	Dept. Comp. Sci. and Eng., University of Washington
2000-2003	Assistant Professor	Dept. Comp. Sci. and Eng., University of Washington
2000-2005	Adjunct Assistant Professor	The Robotics Institute, Carnegie Mellon University
1997-2000	Assistant Professor	The Robotics Institute, Carnegie Mellon University
1999-2009	Consultant	Interactive Visual Media Group, Microsoft Research
1997-1998	Postdoctoral Researcher	Vision Technology Group, Microsoft Research
1993	Summer Intern	Advanced Technology Group, Apple Computer

Awards

2017	ACM Fellow
2015	Best paper award, IEEE. Conference on Computer Vision and Pattern Recognition
2013	Best paper award, 3DV
2010	IEEE Fellow
2005	Short-Dooley Career Development Associate Professorship
2002	Alfred P. Sloan Fellowship
2002	Office of Naval Research Young Investigator Award
2001	David Marr Prize, for the best paper at the 8 th International Conference on Computer Vision
2000	National Science Foundation CAREER Award
1999	David Marr Prize, for the best paper at the 7 th International Conference on Computer Vision
1998	Best Graduate Student Researcher Award, Dept. of Computer Sciences, Univ. Wisconsin
1991	Graduation With Special Honors, University of California, Berkeley
1987	Chancellor's Scholarship, University of California, Berkeley

Keynote and Distinguished Lecture Talks

2017	Distinguished Lecture	University of Wisconsin Vision Sciences
2016	Keynote	International Conference on Computer Vision, Oct.
2015	Keynote	IEEE Workshop on Applications of Computer Vision, Jan.
2013	Distinguished Lecture	UNC/Duke/NCState, Mar.

2013	Keynote	High Performance Graphics Conf., July.
2013	Keynote	IS&T/SPIE Electronic Imaging, Feb.
2012	Keynote	IEEE Symposium on Large-Scale Data Analysis and Vis., Oct.
2012	Keynote	IEEE International Conference on Computational Photography, Apr.
2012	Distinguished Talk	Information Theory and Applications (ITA), Feb.
2011	Distinguished Lecture	University of California, Berkeley, Oct.
2011	Distinguished Lecture	EPFL, Lausanne, Jun.
2011	Keynote	IEEE Workshop on Motion and Video Computing, Jan.
2010	Keynote	International Symposium on Visual Computing, Dec.
2010	Distinguished Lecture	University of Illinois, Urbana-Champaign, Apr.
2010	Distinguished Lecture	University of Oregon, Apr.
2009	Distinguished Lecture	University of California, Irvine, Nov.
2009	Keynote	PROCAMS Workshop, Jun.
2007	Keynote	Interactive Computer Vision Workshop, Oct.
2007	Keynote	Virtual Reps. and Modeling of Large-scale Environs Workshop, Oct.
2007	Distinguished Lecture	Adobe, May.
2006	Distinguished Lecture	University of Toronto, Dec.
2006	Keynote	Brazilian Symp. on Comp. Graphics and Image Proc., Manaus, Oct.
2005	Keynote	Imagina, Monte-Carlo, Feb.
2005	Distinguished Lecture	University of British Columbia, Jan.
2004	Distinguished Lecture	University of Michigan, Mar.
2003	Keynote	IMA Conf. on Vision, Video and Graphics, Bath, England, Jun.
2002	Keynote	Indian Conf. on Computer Vision, Graphics and Image Proc., Dec.
2002	Distinguished Lecture	University of Utah, Depart of Computer Science, Nov.
2002	Keynote	1 st Int. Symp. on 3D Data Proc. Vis. and Trans. Padova, Italy, Jun.

Professional Activities

Editorships

Editorial Board	CACM Research Highlights, 2014-2016
Editorial Board	International Journal of Computer Vision, 2009-2016
Associate Editor	IEEE Transactions on Pattern Analysis and Machine Intelligence, 2001-2006
Editorial Board	The Visual Computer, International Journal of Computer Graphics, Springer, 2000-2005
Editorial Board	Graphical Models, Academic Press, 2002-2005
Guest Editor	ACM Computer Graphics Special Issue on Applications of Computer Graphics for Computer Vision, November, 1999, with Richard Szeliski

Award Committees

ACM	Doctoral Dissertation Award Committee, 2011-2013
ECCV	Best Paper Award Committee, 2014
CACM	Research Highlights, 2014-
CVPR	Best Paper Award Committee, 2011

Program Committees

Program Co-chair	ICCV (International Conf. on Computer Vision.), 2013
Area Chair	CVPR (Computer Vision and Pattern Recognition Conf.), 2013
Program Committee	CVPR, 2009
Co-organizer	International Workshop on Video, 2009
Co-organizer	BIRS Workshop on Computer Vision and the Internet, 2009
Co-organizer	International Workshop on Computer Vision, 2008
Area Chair	CVPR, 2008
Area Chair	CVPR, 2007

Area Chair	ICCV, 2005
Program Committee	SIGGRAPH, 2005
Area Chair	CVPR, 2004
Area Chair	ECCV (European Conf. On Computer Vision), 2004
Program Committee	NIPS (Neural Information and Processing Systems), 2003
Program Committee	ICCV, 2003
Area Chair	CVPR, 2003
Program Committee	AAAI (American Association for Artificial Intelligence Conf.), 2002
Program Committee	ICCVGIP (Indian Conference on Computer Vision, Graphics, and Image Processing), 2002
Program Committee	International Symposium on 3D Data Processing Visualization and Transmission, 2002
Program Committee	SIGGRAPH, 2001
Program Committee	International Conference on 3D Digital Imaging and Modeling, 2001
Co-organizer	CVPR Course on “3D Photography”, with Brian Curless, 1999
Program Committee	CVPR, 2000
Program Committee	Workshop on 3D Structure from Multiple Images of Large-scale Environments, 2000
Program Committee	ICCVGIP, 2000
Program Committee	SIGGRAPH, 2000
Program Committee	IEEE Workshop on Multi-View Modeling & Analysis of Visual Scenes, 1999
Program Committee	IEEE Workshop on Photometric Modeling for Computer Vision and Graphics, 1999
Co-organizer	SIGGRAPH Course on “3D Photography”, with Brian Curless, 1999
Co-organizer	CVPR Course on “3D Photography”, with Brian Curless, 1999
Program Committee	CVPR, 1998

Grant Review

Panelist	NSF Panel on Symbolic, Numeric, and Geometric Computing
Panelist	NSF Panel on Robotics and Human Augmentation
Panelist	NSF Panel on Computer Vision

Professional Societies

Fellow	Institute of Electrical and Electronics Engineers
Fellow	Association for Computing Machinery

Ph.D. Students Advised and Co-Advised

JJ Park, expected 2022

Xuan Liu, expected 2021

Aleksander Holynski, expected 2020

Hamid Izadnia, expected 2019

Aditya Sankar, *Interactive In-Situ Scene Capture on Mobile Devices*, 2017, *Current employment: UW*

Supasorn Suwajanakorn, *Audiovisual Persona Reconstruction*, 2017, *Current employment: Google*

Ricardo Martin, *Exploring the World’s Visual History*, 2016, *Current employment: Google.*

Qi Shan, *Photorealistic Scene Modeling and Visualization*, 2015 (with Brian Curless), *Current employment: Zillow.*

Avanish Kushal, *Reconstruction and Visualization of Architectural Scenes*, 2014, *Current employment: Jane Street*

Rahul Garg, *Unstructured Image Mosaics*, 2012, *Current employment: Google.*

Ian Simon, *Scene Understanding Using Internet Photo Collections*, *Current employment: Smule*

Keith (“Noah”) Snavely, *Scene Reconstruction and Visualization from Internet Photo Collections*, 2008, (with Rick Szeliski), *Current employment: Assistant Professor, Cornell*
Daniel Goldman, *A Framework for Video Annotation, Visualization, and Interaction*, 2007 (with Brian Curless, David Salesin), *Current employment: Adobe*.
Jiwon Kim, (with Maneesh Agrawala), *Current employment: NHN (Korean search engine)*
Li Zhang, *Spacetime Stereo and Its Applications*, 2005 (with Brian Curless), *Current employment: Google*
Kiran Bhat, *Creating Realistic Simulations from Video*, 2004 (CMU, with Pradeep Khosla, Jessica Hodgins), *Current employment: Industrial Light and Magic, San Francisco*.
Daniel Wood, *Surface Light Fields for 3-D Photography*, 2004 (with Brian Curless, Werner Stuetzle, Tom DuChamp), *Current employment: Microsoft*
Jovan Popovic, *Interactive Design of Rigid-Body Simulations for Computer Animation*, 2001 (CMU, with Michael Erdmann). *Current employment: Adobe Research*

Postdocs Advised and Co-Advised

Konstantinos Ramatas, 2016-
Christopher Sweeney, 2016-2018, *Current employment: Oculus*
Richard Newcombe, 2012-2015, *Current employment: Oculus*
Neeraj Kumar, 2012-2014, *Current employment: Dropbox*
Min Sun, 2013-2014, *Current employment: Assistant Prof., National Tsing Hua University (Taiwan)*
Bryan Russell, 2012-2014, *Current employment: Adobe Research*
Changchang Wu, 2009-2011, *Current employment: Google*
Ira Kemelmacher-Shlizerman, 2009-2012, *Current employment: Assistant Prof., Univ. Washington*
Yasutaka Furukawa, 2008-2009, *Current employment: Assistant Prof., Simon Frasier University*
Eli Shechtman, 2007-2009, *Current employment: Adobe Research*
Sameer Agrawal, 2006-2009, *Current employment: Google*
Michael Goesele, 2005-2007, *Current employment: Prof., University of Darmstad, Germany*
Aaron Hertzmann, 2001-2002, *Current employment: Adobe Research*

Other Students Advised and Co-Advised

Hao Du, UW Masters degree, 2011
Ryan Kaminsky, UW grad
Sergey Karayev, UW undergraduate 2008-2009
Kevin Chiu, UW undergraduate 2006-2007
Andy Hou, UW undergraduate 2006-2007
Gordon Hempton, UW undergraduate 2006-2007
Robert Carroll, UW undergraduate 2005-2007
Terri Moore, UW undergraduate 2004
David Dewey, UW undergraduate 2003
Thomas Kang, (with Jianbo Shi), CMU Masters 2002
Christopher Twigg, UW B.A. 2002
Guillaume Dugas-Phocion, UW visiting researcher, 2002
Jean-Sebastien Samson, CMU visiting researcher, 2000

Thesis Committees

Grant Schindler, Georgia Tech
Harlan Hile, UW CSE
Pravin Bhat, UW CSE, 2009
Jue Chen, UW EE, Ph.D. 2008
Adrien Treuille, UW CSE, Ph.D. 2008
Aseem Agarwala, UW CSE, Ph.D. 2006

Karen Liu, UW CSE, Ph.D. 2005
Matthew Brown, Univ. British Columbia, Ph.D. 2005
Vivek Kwatra, Georgia Tech, Ph.D. 2005
Jonathan Shade, UW CSE, Ph.D. 2004
Daniel Wood, UW CSE, Ph.D. 2004
John Isidoro, Boston University, Ph.D. 2004
Daniel Huber, CMU Robotics Institute, Ph.D. 2002
Sundar Vedula, CMU Robotics Institute, Ph.D. 2001
Liang Zhao, CMU Robotics Institute, Ph.D. 2001
Andrew Willmott, CMU CSD, Ph.D. 2000
Mei Chen, CMU RI, Ph.D. 1999

Publications

Journal Articles

1. R. Martin-Brualla, D. Gallup, S. M. Seitz, 3D Time-lapse Reconstruction from Internet Photos, *Trans. Int. J. of Computer Vision (IJCV)*, 2017, pp. 1-13. **Special Issue on ICCV 2015 best papers.**
2. S. Suwajanakorn, S. M. Seitz, I. Kemelmacher-Shlizerman, Synthesizing Obama: Learning Lip-Sync from Audio, *ACM Transactions on Graphics (Proc. SIGGRAPH)*, 2017.
3. R. Martin-Brualla, D. Gallup, S. M. Seitz, Time Lapse Mining from Internet Photos, *ACM Transactions on Graphics (Proc. SIGGRAPH)*, 2015.
4. I. Kemelmacher-Shlizerman, E. Shechtman, R. Garg and S. M. Seitz, Moving Portraits, *Communications of the ACM, Research Highlights*, vol. 57, no. 9, 2014, pp. 93-99.
5. B. C. Russell, R. Martin-Brualla, D. J. Butler, S. M. Seitz, L. Zettlemoyer, 3D Wikipedia: Using Online Text to Automatically Label and Navigate Reconstructed Geometry, *ACM Transactions on Graphics (Proc. SIGGRAPH Asia)*, vol. 32, no. 6, 2013.
6. I. Kemelmacher-Shlizerman, E. Shechtman, R. Garg and S. M. Seitz, Exploring Photobios, *ACM Transactions on Graphics (Proc. SIGGRAPH)*, vol. 30, no. 4., Aug, 2011.
7. S. Agarwal, Y. Furukawa, N. Snavely, I. Simon, B. Curless, S. M. Seitz and R. Szeliski, Building Rome in a Day, *Communications of the ACM, Research Highlights*, vol. 54, no. 10, October 2011, pp. 105-112.
8. S. Agarwal, Y. Furukawa, N. Snavely, B. Curless, S. M. Seitz, R. Szeliski, Reconstructing Rome, *Trans. IEEE Computer, Cover Feature*, June 2010, vol. 43, no. 6, 2010, pp. 40-47.
9. N. Snavely, I. Simon, M. Goesele, R. Szeliski, S. M. Seitz, Scene reconstruction and visualization from community photo collections, *Proc. of the IEEE, Special Issue on Internet Vision*, September 2010, vol. 98, no. 8, 2010, pp. 1370-1390.
10. D. Goldman, B. Curless, A. Hertzmann, and S. M. Seitz, Spatially-varying BRDFs from photometric stereo, in *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, vol. 32, no. 6, 2010, 1060-1071.
11. R. Carroll and S. M. Seitz, Rectified surface mosaics, *Int. J. Computer Vision (IJCV)*, vol. 85, no. 3, 2009, pp. 307-315.
12. N. Snavely, R. Garg, S. M. Seitz, and R. Szeliski, Finding paths through the world's photos, in *ACM Trans. on Computer Graphics (SIGGRAPH Proceedings)*, vol. 27, no. 3, 2008, pp. 11-21.
13. N. Snavely, S. M. Seitz, R. Szeliski. Modeling the world from Internet photo collections. *International Journal of Computer Vision*, vol. 80, no. 2, 2008, pp. 189-210.

14. L. Zhang and S. M. Seitz, Estimating optimal parameters for MRF stereo from a single image pair, in *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, vol. 29, no. 2, 2007, pp. 331-342.
15. N. Snavely, S. M. Seitz, and R. Szeliski, Photo tourism: exploring photo collections in 3D. in *ACM Trans. on Computer Graphics (SIGGRAPH Proceedings)*, vol. 25, no. 3, 2006, pp. 835-846.
16. D. B. Goldman, B. Curless, D. Salesin, and S. M. Seitz, Schematic storyboarding for video visualization and editing. *ACM Trans. on Computer Graphics (SIGGRAPH Proceedings)*, vol. 25, no. 3, 2006, pp. 862-871.
17. A. Hertzmann and S. M. Seitz. Example-based photometric stereo: shape reconstruction with general, varying BRDFs, in *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, vol. 27, no. 8, 2005, pp. 1254-1264.
18. L. Zhang, N. Snavely, B. Curless, and S. M. Seitz. Spacetime Faces: High-resolution capture for modeling and animation, in *ACM Trans on Computer Graphics (SIGGRAPH Proceedings)*, vol. 23, no. 3, 2004, pp. 548-558.
19. A. Agarwala, A. Hertzmann, D. H. Salesin, and S. M. Seitz, Keyframe-based tracking for rotoscoping and animation, in *ACM Trans on Computer Graphics (SIGGRAPH Proceedings)*, vol. 23, no. 3, 2004, pp. 584-591.
20. K. S. Bhat, S. M. Seitz, J. Hodgins and P. Khosla. Flow-based video synthesis and editing, in *ACM Trans on Computer Graphics (SIGGRAPH Proceedings)*, vol. 23, no. 3, 2004, pp. 360-363.
21. J. Popovic, S. M. Seitz, and M. Erdmann, Motion sketching for control of rigid-body simulation", *ACM Transactions on Graphics*, vol. 22, no. 4, 2003, pp. 1034-1054
22. L. Zhang, G. Dugas-Phocion, J.-S. Samson, and S. M. Seitz, Single view modeling of free-form scenes, *Journal of Visualization and Computer Animation*, 2002, vol. 13, no. 4, pp. 225-235 (Invited paper)
23. S. M. Seitz, A. Kalai, and H. Shum, Omnivergent stereo, *International Journal of Computer Vision*, 2002, vol. 48, no. 3, pp. 159-172.
24. S. M. Seitz and K. N. Kutulakos, Plenoptic image editing, *International Journal of Computer Vision*, 2002, vol. 48, no. 2, pp. 115-129.
25. S. M. Seitz and J. Kim, The space of all stereo images, *International Journal of Computer Vision, Marr Prize Special Issue*, 2002, vol. 48, no. 1, pp. 21-38
26. F. Dellaert, S. M. Seitz, C. E. Thorpe, and S. Thrun, EM, MCMC, and chain flipping for structure from motion with unknown correspondence, *Machine Learning, special issue on Markov chain Monte Carlo methods*, 2003, vol. 50, pp. 45-71
27. K. N. Kutulakos and S. M. Seitz, A theory of shape by space carving, *International Journal of Computer Vision, Marr Prize Special Issue*, 2000, vol. 38, no. 3, pp. 199-218
28. J. Gemmell, C. L. Zitnick, T. Kang, K. Toyama, and S. M. Seitz, Gaze-awareness for Videoconferencing: A Software Approach, *IEEE Multimedia*, vol. 7, no. 4 2000
29. S. M. Seitz and C. R. Dyer, Photorealistic scene reconstruction by voxel coloring, *International Journal of Computer Vision*, vol. 35, no. 2, 1999, pp. 151-173
30. S. M. Seitz and C. R. Dyer, View-invariant analysis of cyclic motion, *International Journal of Computer Vision*, 1997, vol. 25, no. 3, 1997, pp. 231-251

Book Chapters

1. S. M. Seitz and C. R. Dyer, Cyclic motion analysis using the period trace, *Motion-Based Recognition*, M. Shah and R. Jain, eds., Kluwer, Boston, 1997

Invited Conference Papers

1. J. Kim, S. M. Seitz, and M. Agrawala, The Office of the Past: Document Discovery and Tracking from Video, *Proc. IEEE Workshop on Real-Time Vision for Human-Computer Interaction*, 2004.
2. S. M. Seitz, Toward interactive scene walkthroughs from images, *Proc. Computer Vision for Virtual Reality Workshop*, 1998, pp. 14-19
3. S. M. Seitz, Implicit scene reconstruction from probability density functions, *Proc. Image Understanding Workshop*, 1998
4. S. M. Seitz and C. R. Dyer, Photorealistic scene reconstruction by voxel coloring, *Proc. Image Understanding Workshop* 1997, pp. 935-942
5. S. M. Seitz and C. R. Dyer, Uniquely predicting scene appearance from basis images, *Proc. Image Understanding Workshop*, 1997, pp. 881-887
6. S. M. Seitz, Bringing photographs to life with view morphing, *Proc. INA Imagina 97*, 1997, pp. 153-158

Refereed Conference Papers

1. X. Luo, J. Lawrence, S. M. Seitz, Pepper's Cone: An Inexpensive Do-It-Yourself 3D Display, *Proc. User Interface Software and Technology (UIST)*, 2017.
2. A. Sankar, S. M. Seitz, In-Situ CAD Capture, *Proc. User Interface Software and Technology (UIST)*, 2017.
3. H. Izadinia, Q. Shan, S. M. Seitz, IM2CAD, *Proc. Computer Vision and Pattern Recognition (CVPR)*, 2017.
4. A. Sankar and S. M. Seitz, In-Situ CAD Capture, *Proc Conf. on Human-Computer Interaction with Mobile Devices and Services (MobileHCI)*, 2016.
5. R. Newcombe, D. Fox, S. M. Seitz, Dynamic Fusion: Reconstruction and Tracking of Non-Rigid Scenes in Real Time, *Proc. Computer Vision and Pattern Recognition (CVPR)*, 2015.
6. S. Suwajanakorn, S. M. Seitz, I. Kemelmacher-Shlizerman, What Makes Tom Hanks Look Like Tom Hanks, *Proc. International Conf. on Computer Vision (ICCV)*, 2015.
7. R. Martin-Brualla, D. Gallup, S. M. Seitz, 3D Time-lapse Reconstruction from Internet Photos, *Proc. International Conf. on Computer Vision (ICCV)*, 2015.
8. Q. Shan, C. Wu, B. Curless, Y. Furukawa, C. Hernandez, S. M. Seitz, Accurate Geo-registration by Ground-to-Aerial Image Matching, *Proc. 3DV*, 2014.
9. S. Suwajanakorn, I. Kemelmacher-Shlizerman, S. M. Seitz, Total Moving Face Reconstruction, *Proc. European Conf. on Computer Vision (ECCV)*, 2014.
10. Ricardo Martin-Brualla, Yanling He, Bryan C. Russell and Steven M. Seitz, The 3D jigsaw puzzle: mapping large indoor spaces, *Proc. European Conf. on Computer Vision (ECCV)*, 2014.
11. Qi Shan, B. Curless, Y. Furukawa, C. Hernandez, S. M. Seitz, Photo Uncrop, *Proc. European Conf. on Computer Vision (ECCV)*, 2014.

12. M. Sun, A. Farhadi, S. M. Seitz, Ranking Domain-specific Highlights by Analyzing Edited Videos, *Proc. European Conf. on Computer Vision (ECCV)*, 2014.
13. M. Sun, A. Farhadi, B. Taskar, S. M. Seitz, Salient Montages from Unconstrained Videos, *Proc. European Conf. on Computer Vision (ECCV)*, 2014.
14. N. Kumar, S. M. Seitz, Photo Recall: Using the Internet to Label Your Photos, *Proc. Workshop on Web-scale Vision and Social Media (VSM)*, 2014.
15. I. Kemelmacher-Shlizerman, S. Suwajanakorn, S. M. Seitz, Illumination-Aware Age Progression, *Proc. Computer Vision and Pattern Recognition (CVPR)*, 2014.
16. Qi Shan, B. Curless, Y. Furukawa, C. Hernandez, S. M. Seitz, Occluding Contours for Multi-View Stereo, *Proc. Computer Vision and Pattern Recognition (CVPR)*, 2014.
17. N. Kumar, S. M. Seitz, Photo Recall: Using the Internet to Label Your Photos, *Proc. Workshop on Web-scale Vision and Social Media (VSM) at CVPR 2014*, 2014
18. Qi Shan, R. Adams, B. Curless, Y. Furukawa, S. M. Seitz, The Visual Turing Test for Scene Reconstruction, *Proc. 3DV*, 2013.
19. A. Kushal, S. M. Seitz, Single View Reconstruction of Piecewise Swept Surfaces, *Proc. 3DV*, 2013.
20. I. Kemelmacher-Shlizerman, S. M. Seitz, Collection flow, *Proc. Computer Vision and Pattern Recognition (CVPR)*, 2012, pp. 1792-1799.
21. A. Kushal, B. Self, Y. Furukawa, D. Gallup, C. Hernandez, B. Curless, S. M. Seitz, Photo Tours, *Proc. 3DIMPVT*, 2012, pp. 57-64.
22. R. Garg, S. M. Seitz, Dynamic Mosaics, *Proc. 3DIMPVT*, 2012, pp. 65-72.
23. C. Wu, S. Agarwal, B. Curless, S. M. Seitz: Schematic surface reconstruction, *Proc. Computer Vision and Pattern Recognition (CVPR)*, 2012, pp. 1498-1505.
24. A. Sankar, S. M. Seitz, Capturing indoor scenes with smartphones, *Proc. UIST*, 2012, pp. 403-412.
25. I. Kemelmacher-Shlizerman, S. M. Seitz, Face reconstruction in the wild, *Proc. Int. Conf. on Computer Vision (ICCV)*, 2011, pp. 1746-1753.
26. H. Du, D. B. Goldman, S. M. Seitz, Binocular Photometric Stereo, *Proc. BMVC*, 2011, pp. 1-11.
27. R. Garg, S. M. Seitz, D. Ramanan, N. Snavely, Where's Waldo: Matching people in images of crowds, *Proc. CVPR*, 2011, pp. 1793-1800.
28. C. Wu, S. Agarwal, B. Curless, S. M. Seitz: Multicore bundle adjustment, *Proc. Computer Vision and Pattern Recognition (CVPR)*, 2011, pp. 3057-3064.
29. H. Du, P. Henry, X. Ren, M. Cheng, D. B. Goldman, S. M. Seitz, D. Fox, Interactive 3D modeling of indoor environments with a consumer depth camera, *Proc. Ubicomp*, 2011, pp. 75-84.
30. I. Kemelmacher-Shlizerman, A. Sankar, E. Shechtman, and S. M. Seitz. Being John Malkovich. *Proc. Eur. Conf. on Computer Vision (ECCV)*, 2010, pp. 341-353.
31. S. Agarwal, N. Snavely, S. M. Seitz, and R. Szeliski. Bundle Adjustment in the Large. *Proc. Eur. Conf. on Computer Vision (ECCV)*, 2010, pp. 29-42.
32. Y. Furukawa, B. Curless, S. M. Seitz and R. Szeliski, Towards Internet-scale Multi-view Stereo, *Proc. Computer Vision and Pattern Recognition (CVPR)*, 2010, pp. 1434-1441.
33. E. Shechtman, A. Rav-Acha, M. Irani, S. M. Seitz: Regenerative morphing, *Proc. Computer Vision and Pattern Recognition (CVPR)*, pp. 615-622.

34. Y. Li, S. B. Kang, N. Joshi, S. M. Seitz, and D. P. Huttenlocher. Generating Sharp Panoramas from Motion-blurred Videos. *Proc. Computer Vision and Pattern Recognition (CVPR)*, 2010, pp. 2424-2431.
35. S. Agarwal, N. Snavely, I. Simon, S. M. Seitz and R. Szeliski. Building Rome in a day. *Proc. Int. Conf. on Computer Vision (ICCV)*, 2009.
36. R. Garg, H. Du, S. M. Seitz and N. Snavely. The dimensionality of scene appearance. *Proc. Int. Conf. on Computer Vision (ICCV)*, 2009.
37. S. M. Seitz and S. Baker. Filter flow. *Proc. Int. Conf. on Computer Vision (ICCV)*, 2009.
38. Y. Furukawa, B. Curless, S. M. Seitz, R. Szeliski. Reconstructing building interiors from images. *Proc. Int. Conf. on Computer Vision (ICCV)*, 2009.
39. Y. Furukawa, B. Curless, S. M. Seitz, R. Szeliski. Manhattan-world stereo. *Proc. Computer Vision and Pattern Recognition (CVPR)*, 2009.
40. I. Simon and S. M. Seitz. Scene segmentation using the wisdom of crowds. *Proc. European Conf. on Computer Vision*, 2008, pp. 541-553.
41. N. Snavely, S. M. Seitz, and R. Szeliski. Skeletal sets for efficient structure from motion. *Proc. Computer Vision and Pattern Recognition (CVPR)*, 2008.
42. S. Agarwal, N. Snavely, and S. M. Seitz. Fast algorithms for L-infinity problems in multiple view Geometry. *Proc. Computer Vision and Pattern Recognition (CVPR)*, 2008.
43. M. Goesele, N. Snavely, B. Curless, H. Hoppe, and S. M. Seitz. Multi-view stereo for community photo collections, *International Conf. on Computer Vision.*, 2007.
44. I. Simon, N. Snavely, and S. M. Seitz. Scene summarization for online image collections. *Proc. International Conf. on Computer Vision.*, 2007.
45. R. Carroll and S. M. Seitz. Rectified Surface Mosaics, *Proc. Workshop on Mathematical Methods in Biomedical Image Analysis (MMBIA)*, 2007.
46. I. Simon and S. M. Seitz. A probabilistic model for object recognition, segmentation, and non-rigid correspondence. *Proc. Computer Vision and Pattern Recognition Conf.*, 2007.
47. S. M. Seitz, B. Curless, J. Diebel, D. Scharstein, and R. Szeliski. A comparison and evaluation of multi-view stereo reconstruction algorithms, *Proc. Computer Vision and Pattern Recognition Conf.*, 2006, pp. 519-526.
48. M. Goesele, S. M. Seitz and B. Curless. Multi-View Stereo Revisited, *Proc. Computer Vision and Pattern Recognition Conf.*, 2006, pp. 2402-2409.
49. A. Troccoli, S.B. Kang, and S. M. Seitz, Multi-view multi-exposure stereo, *Proc. Symposium. on 3D Data Processing, Visualization, and Transmission (3DPVT)*, Chapel Hill, NC, 2006.
50. D. B. Goldman, B. Curless, A. Hertzmann and S. M. Seitz. Shape and spatially-varying BRDFs from photometric stereo, *Proc. International Conference on Computer Vision*, 2005, pp. 341-348.
51. S. M. Seitz, Y. Matsushita and K. N. Kutulakos. A theory of inverse light transport, *Proc. International Conference on Computer Vision*, 2005, pp. 1440-1447.
52. L. Zhang and S. M. Seitz, Parameter estimation for MRF stereo, *Proc. Computer Vision and Pattern Recognition Conf.*, 2005, pp. 288-295.
53. J. Kim, S. M. Seitz, and M. Agrawala. Video-based document tracking: unifying your physical and electronic desktops, in *Proc. Seventeenth Annual ACM Symposium on User Interface Software and Technology (UIST)* 2004, pp. 99-107.

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