

Biographical Sketches of Song-Chun Zhu

OFFICE ADDRESS

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EDUCATION

1996, Ph.D. **Harvard University**.
1994, M.S. **Harvard University**
1991, B.S. **University of Science and Technology of China**.

PROFESSIONAL APPOINTMENTS

07/2006 Professor, University of California, Los Angeles.
Department of Statistics and Department of Computer Science jointly
07/2002 Associate Professor, University of California, Los Angeles.
Department of Statistics and Department of Computer Science jointly
09/1998 Assistant Professor, Ohio State University.
Department of Computer Science and Center for Cognitive Science jointly.
09/1997 Lecturer, Stanford University.
Department of Computer Science.
09/1996 Research Associate, Brown University.
Division of Applied Mathematics (Pattern Theory Group).

FIVE MOST RELEVANT PUBLICATIONS

- [1] Y.N. Wu, Z.Z. Si, H.F. Gong, and S.C. Zhu, "Learning Active Basis Model for Object Detection and Recognition", *Int'l Journal of Computer Vision*, 2009.
- [2] S.C. Zhu, K. Shi, and Z.Z. Si, "Learning Explicit and Implicit Visual Manifolds by Information Projection", *Pattern Recognition Letter*, 2009.
- [3] Y.N. Wu, C.E. Guo, and S.C. Zhu, "From Information Scaling of Natural Images to Regimes of Statistical Models", *Quarterly of Applied Mathematics*, 2007.
- [4] Y. N. Wu, S. C. Zhu and X. W. Liu, "Equivalence of Julesz Ensemble and FRAME models", *Int'l Journal of Computer Vision*, 38(3), 247-265, July, 2000.
- [5] S.C. Zhu, Y.N. Wu, and D.B. Mumford, "Minimax Entropy Principle and Its Application to Texture Modeling." *Neural Computation*. vol.9, no.8, Nov. 1997.

FIVE OTHER SIGNIFICANT PUBLICATIONS

- [1] B. Yao and S.C. Zhu, "Learning Deformable Action Templates from Cluttered Videos", *Proc. Int'l Conf. on Computer Vision (ICCV)*, Kyoto, Japan, 2009.

- [2] Z.Z. Si, H.F. Gong, Y.N. Wu, and S.C. Zhu, "Learning Mixed Templates for Object Recognition", *Proceedings of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, Florida, June, 2009.
- [3] A. Barbu and S.C. Zhu, "Generalizing Swendsen-Wang for Image Analysis", *Journal of Computational and Graphical Statistics*, vol. 16, no. 4, 877-900, 2007.
- [4] C.E. Guo, S.C. Zhu and Y.N. Wu, "Primal Sketch: Integrating Texture and Structure", *Computer Vision and Image Understanding*, vol. 106, issue 1, 5-19, April, 2007.
- [5] S.C. Zhu and D.B. Mumford, "A Stochastic Grammar of Images", *Foundations and Trends of Computer Graphics and Vision*, vol.2, no.4, pp259-362, 2006.

HONORS

- 2008 J. K Aggarwal Prize, awarded by the Int'l Association of Pattern Recognition.
- 2007 Marr Prize, Honorary nomination, 11th Int'l Conf. Computer Vision, Brazil. (with Y.Wu)
- 2003 Marr Prize, 9th Int'l Conf. Computer Vision, Nice France.
- 2001 CAREER Award, National Science Foundation.
- 2001 Young Investigator Award, Office of Navy Research.
- 2001 Sloan Fellow, Alfred P. Sloan Foundation.
- 1999 Marr Prize, Honorary nomination, 7th Int'l Conf. Computer Vision, Greece. (with Y.Wu)

SOME RECENT SYNERGISTIC ACTIVITIES

- 2009 co-Chair for Int'l Workshop on *Stochastic Image Grammar*.
- 2008 Co-chair for summer school on *Machine Learning, Statistics, and Computer Vision*.
- 2008 Keynote Speaker at the Int'l Conf. on Pattern Recognition, Tampa, Florida.
- 2007 Co-chair for the *Symposium on the Mathematics of Perception*.
- 2007 Co-Chair for the *6th Int'l Conf on EMMCVPR*.

COLLABORATORS

Ying Nian Wu (UCLA), Alan Yuille (UCLA), David Mumford (Brown), Harry Shum (Microsoft), Zhuowen Tu (UCLA), Yizhou Wang (XEROX PARC), Feng Han (Sarnoff), Adrian Barbu (Florida State), Mun Wai Lee (Object Video), Terry Boulton (UCCS).

Ph.D THESIS ADVISOR

Prof. David Mumford

STUDENTS AND POSTDOCS

Zhuowen Tu (Ph.D'02), Adrian Barbu (Ph.D'05), Cheng-en Guo (Ph.D'05), Feng Han (Ph.D'05), Yizhou Wang (Ph.D'05), Romeo Maciucă (Ph.D'05), Zijian Xu (Ph.D'07), Jacob Porway (Ph.D'09), Hong Chen (Postdoc), Brandon Rothrock (Ph.D), Kent Shi (Ph.D'09), Benjamin Yao (PhD), Mingtian Zhao (Ph.D), Haifeng Gong (postdoc).