

Biographical Sketch of Ying Nian Wu

Education

- Harvard University, Statistics, A.M. November 1993
- Harvard University, Statistics, Ph.D. November 1996

Appointments

- 2006 - Present. Professor, Department of Statistics, UCLA.
- 2001 - 2006. Associate Professor, Department of Statistics, UCLA.
- 1999 - 2001. Assistant Professor, Department of Statistics, UCLA.
- 1997 - 1999. Assistant Professor, Department of Statistics, University of Michigan.
- Summers 1996, 1997. Visitor, Bell Labs, Lucent Technologies.

Awards

- Honorable Mention for David Marr Prize, International Conference on Computer Vision, 2007.
- Honorable Mention for David Marr Prize, International Conference on Computer Vision, 1999.
- Winner of Student Paper Competition, Statistical Computing Section, American Statistical Association, 1995.

Publications

Five publications most closely related to the proposed project:

1. Hong, Y., Si, Z. Z., Hu, W. Z., Zhu S. C., and Wu, Y. N (2012). Unsupervised learning of compositional sparse code for natural image representation, *Quarterly of Applied Mathematics*, under review.
2. Wu, W. B. and Wu, Y. N. (2012) Analyzing the Lasso with dependent errors using Nagaev-type inequalities, under review.
3. Chen, R. B., Chu, C. H., Lai, T. Y., and Wu, Y. N. (2011) Stochastic matching pursuit for Bayesian variable selection. *Statistics and Computing*, 21, 247–259.
4. Wu, Y. N., Si, Z., Gong, H., and Zhu, S. C. (2010) Learning active basis model for object detection and recognition. *International Journal of Computer Vision*, 90, 198-235.
5. Si, Z., Gong, H., Zhu, S. C., and Wu, Y. N. (2010) Learning active basis models by EM-type algorithms. *Statistical Science*, 25, 458-475.

Five other related publications:

1. Wu, Y. N., Guo, C., and Zhu, S. C. (2008) From information scaling to regimes of statistical models. *Quarterly of Applied Mathematics*, 66, 81-122.
2. Wu, Y. N., Li, J., Liu, Z., and Zhu, S. C. (2007) Statistical principles in image modeling. *Technometrics*, 49, 249-261.
3. Guo, C. E., Zhu, S. C., and Wu, Y. N. (2006) Primal sketch: integrating structure and texture. *Computer Vision and Image Understanding*, 106, 5-19.

4. Doretto, G., Chiuso, A., Wu, Y. N., and Soatto, S. (2003) Dynamic textures. *International Journal of Computer Vision*, 51, 91-109.
5. Wu, Y. N., Zhu, S. C., and Liu, X. (2000) Equivalence of Julesz ensembles and FRAME models. *International Journal of Computer Vision*, 38, 245-261.

Synergistic Activities

- Associate editor, *Journal of the American Statistical Association*, Applications and Case Studies, 2009-present. Associate editor, *Journal of the American Statistical Association*, Theory and Method, 2011-present. Associate editor, *Stat*, 2012-present. Associate editor, *Statistica Sinica*. 2000 - present.
- Reviewer for journals including *Annals of Statistics*, *Journal of American Statistical Association (JASA)*, *IEEE Pattern Analysis and Machine Intelligence (PAMI)*, *International Journal of Computer Vision (IJCV)*, etc.
- Organizer of a session on statistical modeling and learning in vision in the 2013 Spring Research Conference on Statistics in Industry and Technology, to be held from June 20 to 22, 2013.
- NSF panel, 2012. NSF panel, 2009.
- Seminars and presentations: ONR MURI meeting, UCLA, October 2012. UC Riverside, Department of Statistics, November 2011. Joint Statistical Meeting, Miami, August 2011. Joint Statistical Meeting, Vancouver, August 2010. Texas A and M University, Department of Statistics, April 2010. University of Pennsylvania, Department of Statistics, September 2009.

Collaborators & Other Affiliations

Collaborators

Leah O. Barrera, UCSD; Alessandro Chiuso, University of Padova; Gianfranco Doretto, General Electric; Chuck Fleming, UCLA; Haifeng Gong, UCLA; Roland Green, UCSD; Cheng-en Guo, Vident Corp.; Wenze Hu, UCLA; Tae Hoon Kim, Yale; Xiuwen Liu, Florida State; Chunxu Qu, UCSD; Bing Ren, UCSD; Steven Shoptaw, UCLA; Zhangzhong Si, UCLA; Stefano Soatto, UCLA; Wei Biao Wu, University of Chicago; Xiaowei Yang, UC-Davis; Hong Yi, UCLA; Ming Zheng, Stanford; Song-Chun Zhu, UCLA.

Graduate Advisor

Ph.D. thesis Advisor: Professor Donald B. Rubin, Department of Statistics, Harvard University.

Thesis Advisor

Ray-Bing Chen (Ph.D. 2003), He Hu (Ph.D. 2005, co-advisor), Ming Zheng (Ph.D. 2006), Jinhui Li (Ph.D., 2007), Tess Nesbitt (Ph.D. 2011), David Zes (Ph.D. expected early 2013), Yi Hong (Ph.D. expected early 2013, co-advisor), Jiasheng You (Ph.D. expected 2013, co-advisor), Nicole Chen (Ph.D. candidate), Jianwen Xie (Ph.D. candidate), Yi (Jacky) Yi (Ph.D. candidate).