JOSEPH SCHLECHT — CURRICULUM VITAE

Interdisciplinary Center for Scientific Computing
University of Heidelberg
Speyerer Str 6
69115 Heidelberg, Germany

mobile: +49 176 63 68 33 69
office: +49 6221 54 78 63
schlecht@uni-heidelberg.de
http://vision.cs.arizona.edu/schlecht

EDUCATION

PhD, Department of Computer Science   May 2010
University of Arizona

MS, Department of Computer Science   May 2006
University of Arizona

BS, Department of Computer Science   May 2003
North Dakota State University

INTERESTS

Object detection and recognition in images; Scene understanding; Machine learning;
Bayesian statistical methods; Pattern recognition in scientific data

EXPERIENCE

Postdoctoral Fellow, Computer Vision   Jan 2010 – Present
Interdisciplinary Center for Scientific Computing
University of Heidelberg

Research Assistant, Department of Computer Science   Aug 2003 – Dec 2009
University of Arizona

Research Assistant, Arizona Research Labs   Jun 2005 – Dec 2009
University of Arizona

Undergraduate Research Assistant, Computer Science   Nov 2001 – Jun 2003
North Dakota State University

SELECTED PUBLICATIONS

Contour-based Object Detection
J. Schlecht and B. Ommer
In *Proceedings of the British Machine Vision Conference* (BMVC), 2011

Detecting Gestures in Medieval Images
J. Schlecht, B. Carque and B. Ommer
In *IEEE International Conference on Image Processing* (ICIP), 2011

Sampling Bedrooms
L. Del Pero, J. Guan, E. Ernesto, J. Schlecht and K. Barnard
In *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), 2011

Learning Models of Object Structure
J. Schlecht and K. Barnard
In *Advances in Neural Information Processing Systems* (NIPS), 2009

**Machine Learning Approaches for Classifying Haplogroup from
Y Chromosome STR Data**
J. Schlecht, M. Kaplan, K. Barnard, T. Karafet, M. Hammer and N. Merchant
PLoS Computational Biology, 2008

Inferring Grammar-based Structure Models from 3D Microscopy Data
J. Schlecht, K. Barnard, E. Spriggs and B. Pryor
In *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), 2007

**Statistical Inference of Biological Structure and Point Spread Functions in
3D Microscopy**
J. Schlecht, K. Barnard and B. Pryor
In *Third International Symposium on 3D Data Processing, Visualization and
Transmission* (3DPVT), 2006