

# BIO: Nathan Jacobs

## Professional Preparation

2005–2010	Ph.D. in Computer Science Dissertation topic: Calibrating and Using the Global Network of Outdoor Webcams	Washington University in St. Louis
1995–1999	B.S. in Computer Science (Minor in Mathematics) <i>Summa Cum Laude</i> with Honors	University of Missouri

## Appointments

<b>Assistant Professor of Computer Science</b> 2010–present	University of Kentucky <i>Lexington, KY</i>
<b>Graduate Research Assistant</b> 2005–2010	Washington University <i>St. Louis, MO</i>

## Selected Publications

- [1] Nathan Jacobs, Brian Bies, and Robert Pless. Using cloud shadows to infer scene structure and camera calibration. In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, June 2010. (oral presentation).
- [2] Nathan Jacobs, Stephen Schuh, and Robert Pless. Compressive sensing and differential image motion estimation. In *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, March 2010. (oral presentation).
- [3] Nathan Jacobs, Walker Burgin, Nick Fridrich, Austin Abrams, Kyla Miskell, Bobby H. Braswell, Andrew D. Richardson, and Robert Pless. The global network of outdoor webcams: Properties and applications. In *ACM International Conference on Advances in Geographic Information Systems (SIGSPATIAL GIS)*, November 2009. (oral presentation).
- [4] Nathan Jacobs and Robert Pless. Time scales in video surveillance. *IEEE Transactions on Circuits and Systems for Video Technology*, 18(8):1106–1113, 2008.
- [5] Nathan Jacobs, Scott Satkin, Nathaniel Roman, Richard Speyer, and Robert Pless. Geolocating static cameras. In *IEEE International Conference on Computer Vision (ICCV)*, October 2007.

## Synergistic Activities

- Organizing Committee: IEEE Workshop on Motion and Video Computing (WMVC) 2011.
- Program Committee: IEEE Workshop on Motion and Video Computing (WMVC) 2009-present ; Neural Information Processing Systems (NIPS) 2010
- Reviewer for: Computer Vision and Image Understanding (CVIU); IEEE Transactions on Circuits and Systems for Video Technology (TCSVT); IEEE Computer Graphics and Applications; IEEE Transactions on Aerospace and Electronic Systems; Computers and Electronics in Agriculture; IEEE Conference on Computer Vision and Pattern Recognition (CVPR); IEEE International Conference on Computer Vision (ICCV); ACM Workshop on Video Surveillance and Sensor Networks (VSSN).

- Member of Association for Computing Machinery (ACM), Institute of Electrical and Electronics Engineers (IEEE), Society for Industrial and Applied Mathematics (SIAM).
- Computer Science Department Committees
  - 2010-2011: Media and Outreach

## **Collaborators and Other Affiliations**

### **Collaborators**

Barbara Kucera, University of Kentucky; Richard Souvenir, University of North Carolina–Charlotte; Michael Dixon, Washington University in St. Louis; Jim Griffieon, University of Kentucky; Geoffrey Poole, Montana State University; Clem Izurieta, University of Montana; Richard Hauer, University of Montana; Gwen Jacobs, Montana State University

### **Graduate Advisor**

Robert Pless, Ph.D., Washington University in St. Louis, Missouri

### **Thesis Advisor**

None

### **Postgraduate-Scholar Sponsor**

None