LAURA SEVILLA-LARA

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EDUCATION

University of Massachusetts, Amherst   September 2009 - August 2014 (expected)
Ph.D. in Computer Science
Thesis: *Long range motion estimation and applications.*

Brown University   September 2007 - June 2009
Sc.M. in Computer Science
Masters Project: *Bone tracking from biplanar X-Ray sequences.*

University of Ottawa, Canada   September 2005 - May 2006
Exchange student in Computer Engineering

University of Granada, Spain   September 2002 - July 2007
Computer Engineer
Final Project: *Mathematical Models for Bio-inspired Artificial Retinas.*

RESEARCH EXPERIENCE

Affiliated Student - Max Planck Institute Tuebingen, Germany   February 2014 - Today
· With Michael J. Black.

Research Intern - Adobe Systems (ongoing collaboration)   May 2013 - September 2013
· With Eli Shechtman and Kalyan Sunkavali. We work on creating smooth transitions in videos.

Research Assistant - University of Massachusetts Amherst   September 2009 - May 2013
· With Erik Learned-Miller. We worked on motion estimation in scenes where large changes have occured, for object tracking and optical flow.

Research visitor - Max Planck Institute Tuebingen, Germany   June 2011 - August 2011
· With Michael J. Black. We studied large displacement optical flow.

Software Engineer - Apple, Inc   June 2009 - August 2009
· I worked with the VoiceOver team, who does accessibility for the blind. I worked on text detection and symbol recognition.

Research Assistant - Brown University   January 2008 - December 2009
· With David Laidlaw. We did an experimental study of the influence of high level cognitive tasks in human stereoscopic vision.

Research Assistant - Brown University   September 2008 - May 2009
· With Michael J. Black. 3D bone tracking from X-Ray sequences.

Research Assistant - University of Granada   June 2011 - August 2011
· With Francisco J. Pelayo. Mathematical Models for Bio-inspired Artificial Retinas.

TEACHING EXPERIENCE

Teaching Assistant   September 2012 - Present
· Courses: CS121: Introduction to Problem Solving with Computers, CS370: Computer Vision.
· Held discussion sections and office consultations, and graded assignments.

FELLOWSHIPS AND AWARDS

Fundacion Caja Madrid Scholarship for Graduate Studies   May 2007
· F.C.M. sponsored me for 2 years to do my masters, and covered full tuition and expenses.

Vulcanus in Japan   May 2007
· From the European Commission and Japanese Dept. of Economy. Acceptance ratio is 4% (Declined).

Research Collaboration at University of Granada   October 2006
· From the Spanish Department of Education and Science

Scholarship for Exchange Program in North American Universities   May 2005
· From the University of Granada.

Scholarship for freshman students in University   June 2002
· From Spanish Department of Education and Science for having a GPA of 4.0 in high school

INVITED TALKS

University of California Berkeley   November 2013
· *Long range motion estimation.*

COMMUNITY SERVICE

- Best Volunteer Award CVPR 2012   June 2012

- Graduate Representative at School Faculty Meeting   September 2012 - Present

- Reviewer for CVPR 2012, ECCV 2012

PROGRAMMING LANGUAGES

General purpose	C/C++, Java (basic).
Mathematics and AI	Matlab, Mathematica, Lisp, Prolog.
Others	Unix, OpenGL

OTHER INTERESTS

Languages	Spanish (Native), English (fluent)
Miscellanea	Photography, Social Volunteer, Basketball, Writing and Theatre

PUBLICATIONS

[1] Laura Sevilla-Lara Deqing Sun, Erik G. Learned-Miller and Michael J. Black. Optical flow estimation with channel constancy (to appear). In *ECCV*, 2014.

[2] Benjamin Mears Laura Sevilla-Lara and Erik G. Learned-Miller. Distribution fields with adaptive kernels for large displacement image alignment. In *BMVC*, 2013.

[3] Laura Sevilla-Lara and Erik G. Learned-Miller. Distribution fields for tracking. In *CVPR*, pages 1910–1917, 2012.

[4] Laura Sevilla-Lara and Erik G. Learned-Miller. Distribution fields. Technical report, University of Massachusetts Amherst., 2011.

[5] Laura Sevilla-Lara. Bone tracking from x-ray sequences. *Masters Project, Brown University*, 2009.

REFERENCES

- Erik Learned-Miller. *University of Massachusetts Amherst.*

- Michael J. Black. *Max-Planck Institute for Intelligent Systems. (Tuebingen, Germany)*

- Eli Shechtman. *Adobe Systems*