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Computer Science and Engineering
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Education

UNIVERSITY OF CALIFORNIA, SAN DIEGO La Jolla, CA
September 1993–March 2007

B.S., Electrical Engineering, minor in Music, 1999
Advisors: Ramesh Jain and Pamela Cosman

M.S., Electrical Engineering, 2003

Ph.D., Electrical Engineering, 2007

Dissertation: *Precise Estimation of the Geoposition and Orientation of Ground-level Video Cameras from Multiple Sensors*

Advisors: Serge Belongie and Nuno Vasconcelos

Experience

2d3 San Diego, CA
April 2008–present
Vice President, Research and Development

UNIVERSITY OF CALIFORNIA, SAN DIEGO La Jolla, CA
April 2008–December 2008, September 2009–present
Visiting Scholar

VISION ROBOTICS San Diego, CA
January 2007–April 2008
Chief Engineer, Research and Development

SONARAY (now IOS TECHNOLOGIES) San Diego, CA
August 2006–January 2007
Chief Engineer, Research and Development

INDEPENDENT CONSULTANT San Diego, CA
2001–present
Technology consultant in the areas of computer vision and photogrammetry

BAE SYSTEMS San Diego, CA
June 2000–August 2006
Senior Engineering Specialist, Technical Manager, Project Manager, and Functional Manager
Photogrammetry Research Group

UNIVERSITY OF CALIFORNIA, SAN DIEGO La Jolla, CA
September 1999–March 2007
Graduate Student
Computer Vision Laboratory, March 2002–March 2007
Computer Vision and Robotics Research Laboratory, September 1999–March 2002

SCRIPPS INSTITUTION OF OCEANOGRAPHY La Jolla, CA
June 1996–June 2000

Research and Development Engineer
Underwater Imaging Research Group

Awards and Honors

BAE Systems Chairman's Gold Award, 2004. *BAE Systems' highest award for technical achievement worldwide (BAE Systems employed over 90,000 people worldwide in 2004).*

Press Coverage

"Hispanic Grads Find Success," *Diversity/Careers in Engineering & Information Technology*, Summer/Fall 2003.

Professional Activities

Reviewer: International Conference on Computer Vision, IEEE Conference on Computer Vision and Pattern Recognition, IEEE Workshop on Motion and Video Computing.

Contributor: *Computer Vision: Fact & Fiction* educational DVD, 2005.

Outreach: San Diego County Educational Technology Fair, 2003, 2004, 2005, 2006; Educational High Technology Symposium, 2003, 2004, 2005; UCSD Building the Community Engineering Symposium, 2004.

Member, The Institute of Electrical and Electronics Engineers (IEEE).

Invited Talks

UCSD Building the Community Engineering Symposium, "Thinking like an Engineer," October 2004.

SHPE San Diego Chapter, "Structure and Motion from Video," November 2003.

SPIE Airborne Reconnaissance, Classified Meeting, "Real-time Mosaic Construction from Video," July 2001.

Publications

B. Ochoa and S. Belongie, "Covariance Propagation for Guided Matching," Workshop on Statistical Methods in Multi-Image and Video Processing 2006.

J.R. Powell, S. Krotosky, B. Ochoa, D. Checkley, and P. Cosman, "Detection and Identification of Sardine Eggs at Sea Using a Machine Vision System," *Proceedings of the MTS/IEEE OCEANS*, 2003.

K.D. Moore, J.S. Jaffe, and B.L. Ochoa, "Development of a New Underwater Bathymetric Laser Imaging System: L-Bath," *Journal of Atmospheric and Oceanic Technology*, 17(8):1106–1117, August 2000.

P.P. Dang, B.L. Ochoa, and P.M. Chau, "Performance Analysis of Image Transmission Over Wireless Channels," *Proceedings of the SPIE Image and Video Communications and Processing*, 2000, pp. 908–916.

J.S. Jaffe, K.D. Moore, D. Zawada, B.L. Ochoa, and E. Zege, "Underwater Optical Imaging: New Hardware & Software," *Sea Technology*, 39(7):70–74, July 1998.

D.G. Zawada, J.S. Jaffe, A.M. Chekalyuk, and B.L. Ochoa, "Multispectral measurements of fluorescent biological pigments," AGU/ASLO Ocean Sciences Meeting 1998.

K.D. Moore, J. Jaffe, R. Currier, and B. Ochoa, "A new bathymetric laser imaging system,"
AGU/ASLO Ocean Sciences Meeting 1998.

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