

Antony Lam
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Education	Ph.D. in Computer Science University of California, Riverside Specialized in Computer Vision, Machine Learning, and Information Retrieval.	<i>September</i> <i>2010</i>
	B.S. in Computer Science California State Polytechnic University, Pomona Minored in Mathematics; graduated Magna Cum Laude.	<i>2004</i>

Research

Postdoctoral Researcher, National Institute of Informatics, Tokyo, Japan Supervisor: Dr. Imari Sato <ul style="list-style-type: none">• Research on recovery of spectral distributions for the colors of objects using basis lights.• Developing a transfer learning approach for interpolation of bidirectional reflectance distribution functions (BRDFs) of sparsely sampled materials.	<i>2010-Present</i>
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Research Assistant, University of California, Riverside Supervisors: Dr. Christian R. Shelton and Dr. Amit K. Roy-Chowdhury <ul style="list-style-type: none">• Developing a relevance feedback image and video retrieval system for activities. The system learns models for user queries through a combination of interaction with the user and transfer learning.• Developed and implemented a system for counting the frequency of flies present in a farm. Index cards would be left in farms for flies to leave their waste on. The cards would then be scanned into computers and our system would count the amount of waste to automatically determine the frequency of flies present.• Built a face recognition system that identifies whether two images of faces are of the same person despite pose variations. (Poses vary from frontal to profile.)	<i>2006-2010</i>
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NSF EAPSI Fellow, The University of Tokyo Host Researchers: Dr. Yoichi Sato and Dr. Kris M. Kitani <ul style="list-style-type: none">• Participated in the NSF EAPSI Japan program which is jointly sponsored by the National Science Foundation and the Japan Society for the Promotion of Science. EAPSI Fellows are awarded funds to conduct research in East Asia as Principal Investigators.• Implemented and devised extension to Stochastic Context Free Grammar (SCFG) algorithms for retrieval of video activities. Evaluated utility of SCFGs for video retrieval.	<i>Summer</i> <i>2009</i>
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Research Assistant, California State Polytechnic University, Pomona Supervisor: Dr. Amar Raheja <ul style="list-style-type: none">• Tested the application of different Neural Network architectures to the problem of fabric drape prediction. The objective was to predict characteristics of how a piece of fabric would drape over a rigid surface given its mechanical properties.	<i>2003</i>
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Publications

Alec C. Gerry, Gerald E. Higginbotham, Lea N. Pereira, **Antony Lam**, and Christian R. Shelton. "Evaluation of Methods for Monitoring House Fly Abundance on Large Commercial Dairy Operations." Journal of Economic Entomology, 2011.

Antony Lam, Amit K. Roy-Chowdhury, and Christian R. Shelton. "Interactive Event Search Through Transfer Learning." In 10th Asian Conference on Computer Vision (ACCV), 2010.

Antony Lam and Christian R. Shelton. "Face Recognition and Alignment using Support Vector Machines." In Automatic Face and Gesture Recognition (FG). IEEE, 2008.

Antony Lam, Amar Raheja, and Muthu Govindaraj. "Neural Network Models for Fabric Drape Prediction." In International Joint Conference on Neural Networks (IJCNN), IEEE, 2004.

Professional Activities

- Reviewer for IEEE Transactions on Circuits and Systems for Video Technology (TCSVT).
 - Reviewer for Springer Machine Vision and Applications (MVAP).
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Teaching

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| Teaching Assistant, University of California, Riverside | <i>2004-2006</i> |
| <ul style="list-style-type: none">• Introduction to Computing, Introduction to Engineering, Data Structures and Algorithms, Artificial Intelligence | |
| Tutor, Learning Resource Center, California State Polytechnic University, Pomona | <i>2003-2004</i> |
| <ul style="list-style-type: none">• Tutored for Computer Science courses in programming and data structures. | |
| Grader, Department of Computer Science, California State Polytechnic University, Pomona | <i>2001-2002</i> |
| <ul style="list-style-type: none">• Introduction to Computer Science, Programming and Problem Solving, C++, Discrete Structures | |
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Awards and Memberships

- UCR Chancellor's & College Dissertation Fellowship (Spring 2010)
 - NSF EAPSI/JSPS Summer Fellowship (Summer 2009)
 - UCR Dean's Fellowship (2005-2006)
 - US Department of Education GAANN Fellowship (2004-2005)
 - Boeing Computer Science Scholarship (2004)
 - IEEE Member
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Skills

- Operating Systems: Windows, Linux
 - Programming: Matlab, C++, Java
 - Languages: English (native), Chinese Cantonese (native speaking), Chinese Mandarin (conversational speaking), Japanese (1 year coursework)
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References

Dr. Christian R. Shelton
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Dr. Amit K. Roy-Chowdhury
Department of Electrical Engineering, UC Riverside
amitrc at ee.ucr.edu