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Education

Ph.D. Computer Science, University of Maryland	August 2017
M.S. Computer Science, University of Maryland	May 2016
B.S. Computer Science, Nanjing University	July 2011

Employment

DeepMind, Mountain View CA, Research Scientist	2017–present
Facebook AI Research, New York NY, Research Intern	Summer, Fall 2016
Comcast Labs, Washington DC, Research Intern	Spring 2016
Google, Mountain View CA, Software Engineering Intern	Summer 2015
Apple, Cupertino CA, Engineering Intern	Winter, Summer 2014
Apple, Cupertino CA, Engineering Intern	Summer 2013
University of Maryland, College Park, Research Assistant	2013–2017
University of Maryland, College Park, Teaching Assistant	Fall 2012
Carnegie Mellon University, Robotics Institute, Pittsburgh, Research Associate	2011-2012
National Key Lab for Novel Software Technology, Nanjing, Research Assistant	2009-2011

Honors & Scholarships

CVPR 2017 Doctoral Consortium Travel Award	2017
ICDE 2017 NSF Student Travel Grant	2017
Graduate Research Appreciation Award, University of Maryland	2017
Dean's Fellowship, University of Maryland	2012–2014
First Prize Collegiate Graduation Thesis in Jiangsu Province, China.	2011
Outstanding Undergraduate Thesis Award, Nanjing University	2011
Computer World Scholarship	2011
IBM Chinese Excellent Student Scholarship	2010

ECCV 2010 Student Travel Grant 2010

Provincial-Level Outstanding Collegiate Student in Jiangsu, China 2009

Pacemaker to Outstanding Student at Nanjing University 2009

Pan Xueping's Scholarship 2009

National Scholarship 2008

Awards

27th Place, World Finals of ACM Int'l Collegiate Programming Contest, St. Petersburg, Russia 2013

UPE First to Solve Problem J Award, ACM/ICPC World Finals, St. Petersburg, Russia 2013

Champion, ACM Int'l Collegiate Programming Contest Regional Mid-Atlantic, United States 2012

Meritorious Winner, Mathematical Contest in Modeling, United States 2010

49th Place, World Finals of ACM Int'l Collegiate Programming Contest, Stockholm, Sweden 2009

First Prize Nationwide, Contemporary Undergraduate Mathematical Contest in Modeling, China 2008

Activities

Coach for University of Maryland ACM/ICPC team 2014

Problem Developer for 23rd Maryland Annual High School Programming Contest 2013

Director at the 7th Nanjing Univeristy Local Programming Contest, Nanjing 2009

Academic Services

Journal Reviewer, Robotics and Autonomous Systems 2018

Journal Reviewer, SPIE Journal of Electornic Imaging 2014, 2016, 2018

Journal Reviewer, IEEE Transaction on Image Processing 2017

Journal Reviewer, IEEE Transaction on Cybernetics 2014

Journal Reviewer, The Visual Computer Journal 2016

Program Committee Member, IEEE Conf. on Computer Vision and Pattern Recognition 2017, 2018

Program Committee Member, International Conference on Machine Learning 2017, 2018

Program Committee Member, European Conference on Computer Vision 2018

Reviewer, IEEE International Conference on Computer Vision 2017

Reviewer, International Conference on Learning Representations 2018

Reviewer, Annual Conference on Neural Information Processing Systems 2017, 2018

Reviewer, Asian Conference on Computer Vision 2018

Publications

Theses

Ph.D. Thesis. Towards Robust, Interpretable and Scalable Visual Representations. University of Maryland, College Park, Maryland, United States. August 2017. Thesis Committee: Larry S. Davis, Rama Chellappa, Hal Daumé III, Ramani Duraiswami, Tom Goldstein.

B.S. Thesis. Robust Image Representation and Visual Tracking based on Binary Features. Nanjing University. Nanjing, Jiangsu, China. June 2011. *Awards: Outstanding Undergraduate Thesis Award in Nanjing University (The Only in Computer Science); First Prize Collegiate Graduation Thesis in Jiangsu Province.*

Journal Articles

Y. Guo, Y. Chen, F. Tang, **A. Li**, W. Luo, M. Liu. Object Tracking Using Learned Feature Manifolds. *Computer Vision and Image Understanding (CVIU)*. 2013.

Proceedings

M. Gao, **A. Li**, R. Yu, V. I. Morariu and L. S. Davis. C-WSL: Count-guided Weakly Supervised Localization. *European Conference on Computer Vision (ECCV)*. Munich, Germany, 2018.

R. Yu, **A. Li**, C.-F. Chen, J.-H. Lai, V. I. Morariu, L. S. Davis and C.-Y. Lin. Pruning Networks Using Neuron Importance Score Propagation. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. Salt Lake City, UT, 2018.

M. Gao, R. Yu, **A. Li**, V. I. Morariu and L. S. Davis. Dynamic Zoom-in Network for Fast Object Detection in Large Images. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. Salt Lake City, UT, 2018.

R. Yu, **A. Li**, V. I. Morariu and L. S. Davis. Visual Relationship Detection with Internal and External Linguistic Knowledge Distillation. *IEEE International Conference on Computer Vision (ICCV)*. Venice, Italy, 2017.

A. Li, A. Jabri, A. Joulin and L.J.P. van der Maaten. Learning Visual N-Grams from Web Data. *IEEE International Conference on Computer Vision (ICCV)*. Venice, Italy, 2017.

A. Li, J. Sun, J. Y.-H. Ng, R. Yu, V. I. Morariu and L. S. Davis. Generating Holistic 3D Scene Abstractions for Text-based Image Retrieval. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. Honolulu, Hawaii, 2017.

H. Miao, **A. Li**, L. S. Davis and A. Deshpande. Towards Unified Data and Lifecycle Management for Deep Learning. *IEEE International Conference on Data Engineering (ICDE)*. San Diego, California, 2017.

H. Miao, **A. Li**, L. S. Davis and A. Deshpande. On Model Discovery For Hosted Data Science Projects. *ACM SIGMOD 1st Workshop on Data Management for End-to-End Machine Learning (DEEM)*. Chicago, Illinois, 2017.

H. Miao, **A. Li**, L. S. Davis and A. Deshpande. ModelHub: Deep Learning Lifecycle Management. *IEEE International Conference on Data Engineering (ICDE)*. San Diego, California, 2017. Demonstration track.

A. Li, V. I. Morariu and L. S. Davis. Selective Encoding for Recognizing Unreliably Localized Faces. *IEEE International Conference on Computer Vision (ICCV)*. Santiago, Chile, 2015.

A. Li, V. I. Morariu and L. S. Davis. Planar Structure Matching Under Projective Uncertainty for Geolocation. *European Conference on Computer Vision (ECCV)*. Zurich, Switzerland, 2014.

Z. Yu, **A. Li**, O. C. Au and C. Xu. Bag of Textons for Image Segmentation via Soft Clustering and Convex Shift. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. Providence, Rhode Island, 2012.

A. Li, F. Tang, Y. Guo and H. Tao. Discriminative Nonorthogonal Binary Subspace Tracking. In *European Conference on Computer Vision (ECCV)*. Hersonissos, Greece, 2010.

Preprints

R. Yu, H. Wang, **A. Li**, J. Zheng, V. I. Morariu, L. S. Davis. Representing Videos based on Scene Layouts for Recognizing Agent-in-Place Actions. Preprint.

Technical reports

A. Li, F. Tang, Y. Guo and H. Tao. Efficient Discriminative Nonorthogonal Binary Subspace with its Application to Visual Tracking. Tech report.

Z. Yao, **A. Li**, S. Mann. Analysis of the Weight Function for Implicit Moving Least Squares Techniques. Tech report.

Patents

F. Tang, **A. Li** and X. Shi. Three-Dimensional Hand Tracking Using Depth Sequences. US Patent 9,811,721

Talks

Invited talk at State Key Laboratory for Novel Software Technology, Nanjing University, Deep Learning at Scale from the Perspectives of Data, Model and Platform. 2018

Invited talk at ICCV 2017 Workshop on Web-Scale Vision and Social Media, Learning Visual N-Grams from Web Data 2017

Yahoo Research New York, Minimizing Human Efforts in Vision and Learning 2017

Oculus Research, Redmond WA, Minimizing Human Efforts in Vision and Learning 2017

UMD Graduate Research Appreciation Day, Minimizing Human Efforts in Vision and Learning 2017

Comcast Labs, Washington DC, Planar Structure Matching Under Projective Uncertainty for Geolocation 2015

University of Maryland, Computer Vision Student Seminar, Planar Structure Matching Under Projective Uncertainty for Geolocation 2014

Poster Presentations

Poster at ICCV 2017, Learning Visual N-Grams from Web Data 2017

Invited poster at CVPR 2017 Vision meets Cognition Workshop, Generating Holistic 3D Scene Abstractions for Text-based Image Retrieval 2017

Invited poster at CVPR 2017 Bridges to 3D Workshop, Generating Holistic 3D Scene Abstractions for Text-based Image Retrieval 2017

Poster at CVPR, Generating Holistic 3D Scene Abstractions for Text-based Image Retrieval 2017

Demo/Poster at ICDE 2017, ModelHub: Deep Learning Lifecycle Management 2017

Poster at Amazon Computer Vision Day, Seattle, Selective Encoding for Recognizing Unreliably Localized Faces 2015

Poster at Amazon Graduate Research Symposium, Seattle, WA, Planar Structure Matching Under Projective Uncertainty for Geolocation 2014

Poster at ECCV 2010, Discriminative Nonorthogonal Binary Subspace Tracking 2010

Projects

Image retrieval based on locality sensitive hashing. 2009-2010

Recognizing animal categories in images. 2009-2010

Object tracking based on binary features. 2010-2011

Facial pose estimation for driver's fatigue detection. 2011-2012

Multimedia event detection. 2011-2012

Image based geolocation. 2012-2013

Smartphone active face authentication. 2013-2014

Three dimensional hand tracking from depth sequences. 2014

Large scale face verification. 2014-2016

Multi-view multi-class street sign classification in streetview images. 2015

Text based image retrieval for indoor scenes. 2015-2016

Deep learning lifecycle management. 2015-2016

Scene classification in baseball sport videos. 2016

Learning visual representations of phrases from large scale web data. 2016

Visual relationship detection. 2016-2017

Referring expression comprehension and generation. 2016-2017

References

Larry S. Davis, Professor, University of Maryland

Rama Chellappa, Professor, University of Maryland

Laurens van der Maaten, Research Scientist, Facebook AI Research

Other references available upon request.

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