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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, Senior Research Scientist	2019–present
Google Launchpad Accelerator, San Francisco CA, AI Coach	2019–present
DeepMind, Mountain View CA, Research Scientist	2017–2019
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

<i>27th Place, World Finals of ACM Int'l Collegiate Programming Contest, St. Petersburg, Russia</i>	2013
<i>UPE First to Solve Problem J Award, ACM/ICPC World Finals, St. Petersburg, Russia</i>	2013
<i>Champion, ACM Int'l Collegiate Programming Contest Regional Mid-Atlantic, United States</i>	2012
<i>Meritorious Winner, Mathematical Contest in Modeling, United States</i>	2010
<i>49th Place, World Finals of ACM Int'l Collegiate Programming Contest, Stockholm, Sweden</i>	2009
<i>First Prize Nationwide, Contemporary Undergraduate Mathematical Contest in Modeling, China</i>	2008

Activities

<i>Coach</i> for University of Maryland ACM/ICPC team	2014
<i>Problem Developer</i> for 23rd Maryland Annual High School Programming Contest	2013
<i>Director</i> at the 7th Nanjing University Local Programming Contest, Nanjing	2009

Academic Services

Journal Reviewer, IEEE Transaction on Neural Network and Learning Systems	2019
Journal Reviewer, Robotics and Autonomous Systems	2018
Journal Reviewer, SPIE Journal of Electronic 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
Journal Reviewer, Machine Learning	2019
Program Committee Member, IEEE Conf. on Computer Vision and Pattern Recognition	2017, 2018, 2019
Program Committee Member, International Conference on Machine Learning	2017, 2018, 2019

Program Committee Member, European Conference on Computer Vision 2018
 Reviewer, IEEE International Conference on Computer Vision 2017, 2019
 Reviewer, International Conference on Learning Representations 2018, 2019, 2020
 Reviewer, Annual Conference on Neural Information Processing Systems 2017, 2018, 2019
 Reviewer, Asian Conference on Computer Vision 2018
 Asian Conference on Machine Learning (ACML) 2019
 Winter Conference on Computer Vision (WACV) 2020

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

A. Li*, H. Hu*, P. Mirowski, M. Farajtabar. Cross-View Policy Learning for Street Navigation. ICCV 2019.

R. Yu, H. Wang, **A. Li**, J. Zheng, V. I. Morariu, L. S. Davis. Layout-induced Video Representation for Recognizing Agent-in-Place Actions. ICCV 2019.

Ang Li, Ola Spyra, Sagi Perel, Valentin Dalibard, Max Jaderberg, Chenjie Gu, David Budden, Tim Harley, Pramod Gupta. A Generalized Framework for Population Based Training. KDD 2019.

Hongjie Zhang, **Ang Li**, Xu Han, Zhaoming Chen, Yang Zhang, Yanwen Guo. Improving Open Set Domain Adaptation Using Image-to-Image Translation. ICME 2019.

Jiaqi Ma, Zhe Zhao, Jilin Chen, **Ang Li**, Lichan Hong, Ed H. Chi. SNR: Sub-Network Routing for Flexible Parameter Sharing in Multi-task Learning. AAAI Conference on Artificial Intelligence (AAAI), Honolulu, Hawaii, 2019.

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

- Nir Levine*, Yinlam Chow*, Rui Shu, **Ang Li**, Mohammad Ghavamzadeh, Hung Bui. Prediction, Consistency, Curvature: Representation Learning for Locally-Linear Control. ArXiv 2019.
- Seyed-Iman Mirzadeh, Mehrdad Farajtabar, **Ang Li**, Hassan Ghasemzadeh. Improved Knowledge Distillation via Teacher Assistant: Bridging the Gap Between Student and Teacher. ArXiv 2019.

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 Google Research, Cross-view policy learning for street navigation	2019
Invited talk at X Colloquium, Cross-view policy learning for street navigation	2019
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 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

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.

Last updated: September 6, 2019