

## Wenbin Li

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<b>RESEARCH INTEREST</b>	Computer Vision: material recognition, object recognition, activity recognition Robotics: perception and manipulation Machine Learning: deep learning, transfer learning and reinforcement learning	
<b>EDUCATION</b>	<i>PhD</i> , Computer Vision & Robotics Saarland University & Max Planck Institute for Informatics, Germany Thesis Title: From Perception over Anticipation to Manipulation	2013-2018
	<i>Master of Science</i> , Computer Science Saarland University, Germany Thesis Title: Multi-scale Feature Learning for Material Recognition	2010-2013
	<i>Bachelor of Science</i> , Science and Technology of Intelligence Beijing University of Posts and Telecommunications, China Specialization: Statistical Natural Language Processing	2006-2010
<b>COMPUTER SKILLS</b>	Python, Matlab, R, Perl, Bash, C/C++, Java&Android, Objective C&iOS, OpenCV, PCL, ROS, Theano, Caffe	
<b>LANGUAGES</b>	Chinese (native), English (fluent), German (basic), Japanese (basic)	
<b>PROFESSIONAL EXPERIENCE</b>	<i>Data Mining Engineer</i> , Funshion, Beijing, China	Jun, 2010- July, 2010
<b>ACADEMIC EXPERIENCE</b>	<i>Teaching Assistant</i> Machine Learning, Saarland University, Germany	Oct, 2014- Feb, 2015
	<i>Research Assistant</i> Computer Vision and Multimodal Computing Department, Max Planck Institute for Informatics, Germany Research Topic: Unsupervised feature learning for material recognition	Mar, 2012- Feb, 2013
	<i>Research Assistant</i> Computer Graphics Department, Max Planck Institute for Informatics, Germany Research Topic: Text entry	Nov, 2011- Mar, 2012
	<i>Research Assistant</i> Computer Vision and Multimodal Computing Department, Max Planck Institute for Informatics, Germany Research Topic: Material recognition	Mar, 2011- Nov, 2011
<b>PUBLICATION</b>	[1] Wenbin Li, Jeannette Bohg and Mario Fritz. <i>Acquiring Target Stacking Skills by Goal-Parameterized Deep Reinforcement Learning</i> . Technical Report, 2017. (arXiv:1711.00267)	

- [2] Wenbin Li, Aleš Leonardis and Mario Fritz. *Visual Stability Prediction for Robotic Manipulation*.  
IEEE International Conference on Robotics and Automation (ICRA), 2017.
- [3] Wenbin Li, Aleš Leonardis and Mario Fritz. *Visual Stability Prediction and Its Application to Manipulation*.  
Advances in Neural Information Processing Systems (NIPS) Workshop on Intuitive Physics. 2016. (Extended Abstract);  
AAAI Spring Symposium Series: Interactive Multi-Sensory Object Perception for Embodied Agents, 2017. (Extended Abstract)  
Technical Report, 2016. (arXiv:1609.04861, full Version)
- [4] Wenbin Li, Seyedmajid Azimi, Aleš Leonardis and Mario Fritz. *To Fall Or Not To Fall: A Visual Approach to Physical Stability Prediction*.  
Technical Report, 2016. (arXiv:1604.00066. 2016)
- [5] Wenbin Li and Mario Fritz. *Recognition of Ongoing Complex Activities by Sequence Prediction over a Hierarchical Label Space*.  
In IEEE Winter Conference on Applications of Computer Vision (WACV) 2016.
- [6] Wenbin Li and Mario Fritz. *Teaching Robots the Use of Human Tools from Demonstration with Non-Dexterous End-Effectors*.  
In IEEE RAS International Conference on Humanoid Robots (HUMANOIDS) 2015.
- [7] Wenbin Li. *Learning Multi-scale Representations for Material Classification*.  
Pattern Recognition. Springer International Publishing, 2014. 757-764.
- [8] Antti Oulasvirta, Anna Reichel, Wenbin Li, Yan Zhang, Myroslav Bachynskyi, Keith Vertanen, and Per Ola Kristensson. *Improving two-thumb text entry on touchscreen devices*.  
In SIGCHI Conference on Human Factors in Computing Systems (CHI) 2013.
- [9] Wenbin Li and Mario Fritz. *Recognizing materials from virtual examples*  
In European Conference on Computer Vision (ECCV) 2012.

## AWARDS

Scholarship, International Max Planck Research School for Computer Science	2013-2015
Scholarship, Saarbrücken Graduate School of Computer Science, Saarland University	2010-2012
Scholarship for excellence in academic performance, Beijing University of Posts and Telecommunications	2007-2009
First prize and most creative award for customized Firefox web browser designing competition (among 11 teams from top universities in China)	2008