

Wang-Cheng Kang

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EDUCATION

University of California, San Diego

Sep 2016 – present

Ph.D. in Computer Science

- Advisor: Prof. Julian McAuley
- Research Interests: Recommender Systems, Deep Learning, Computer Vision

Nanjing University

Sep 2012 – Jun 2016

Bachelor of Science in Computer Science

- Studied in the National Elite Program
- First prizes of excellent graduation thesis in both Nanjing University and Jiangsu province.

RESEARCH

Pinterest Labs, Pinterest

Jun 2018 – Sep 2018

Research Intern

- Mentors: Prof. Jure Leskovec, Eric Kim, Dr. Chuck Rosenberg
- Research Project - Complete the look: scene-based complementary recommendation (work in progress)

Creative Intelligence Lab, Adobe Research

Jun 2017 – Sep 2017

Research Intern

- Mentors: Dr. Chen Fang, Dr. Zhaowen Wang, Dr. Hailin Jin, Dr. Jonathan Brandt
- Research Project - A unified recurrent generative approach to recognize, localize objects and identify their occlusion order. The model contains a LSTM, CNN, decoder (GAN or VAE) and spatial transformer network, and is trained end-to-end in a semi-supervised way.

Learning and Mining from Data (LAMDA) Group, Nanjing University

Sep 2014 – Jun 2016

Research Assistant

- Advisors: Prof. Wu-Jun Li, Prof. Zhi-Hua Zhou
- Research Project - Learning to hash in a scalable and discrete way for fast image retrieval. Using discrete optimization algorithm and column sampling to solve the large-scale supervised hashing problem.

PUBLICATIONS

Google Scholar Citations: 252

Semantic Scholar Highly Influential Citations: 58

- [1] Wang-Cheng Kang, Julian McAuley, “*Self-Attentive Sequential Recommendation*”, IEEE International Conference on Data Mining, **ICDM’18** (acceptance rate 9%)
- [2] Wang-Cheng Kang, Mengting Wan, Julian McAuley, “*Recommendation Through Mixtures of Heterogeneous Item Relationships*”, ACM International Conference on Information and Knowledge Management, **CIKM’18** (acceptance rate 17%)
- [3] Wang-Cheng Kang, Julian McAuley, “*Learning Consumer and Producer Embeddings for User-Generated Content Recommendation*”, ACM Conference on Recommender Systems, **RecSys’18**
- [4] Ruining He, Wang-Cheng Kang, Julian McAuley, “*Translation-based Recommendation: A Scalable Method for Modeling Sequential Behavior*”, International Joint Conference on Artificial Intelligence, **IJCAI’18** (Sister Conference Best Paper Track)
- [5] Wang-Cheng Kang, Chen Fang, Zhaowen Wang, Julian McAuley, “*Visually-Aware Fashion Recommendation and Design with Generative Image Models*”, IEEE International Conference on Data Mining, **ICDM’17** (acceptance rate 9%, Travel Grant Award)
- [6] Ruining He, Wang-Cheng Kang, Julian McAuley, “*Translation-based Recommendation*”, ACM Conference on Recommender Systems, **RecSys’17** (**Best Paper Runner-up**)
- [7] Wang-Cheng Kang, Wu-Jun Li, Zhi-Hua Zhou, “*Column Sampling based Discrete Supervised Hashing*”, AAAI Conference on Artificial Intelligence, **AAAI’16**
- [8] Wu-Jun Li, Sheng Wang, Wang-Cheng Kang, “*Feature Learning based Deep Supervised Hashing with Pairwise Labels*”, International Joint Conference on Artificial Intelligence, **IJCAI’16** (the 3rd most cited paper in IJCAI’16)

HONORS & AWARDS	Best Paper Runner-up ACM RecSys	Aug 2017		
	Powell Fellowship UC San Diego	Sep 2016		
	CCF Outstanding Undergraduate Award China Computer Federation, CCF	Aug 2015		
	Microsoft Young Fellowship Microsoft Research Asia, MSRA	Jul 2015		
	Best Development Award (Champion) of Suning IT elites competition Suning Commerce Group Co., Ltd.	May 2014		
	Two Gold Medals of ACM-ICPC Asia Regional Contests Association for Computing Machinery, ACM	Oct 2013, Nov 2013		
	3rd Place of Tencent Hackathon National Finals Tencent Holdings Ltd	Sep 2013		
	Silver Medal of National Olympiad in Informatics China Computer Federation, CCF	Aug 2011		
PROFESSIONAL SERVICES	PC MEMBER/REVIEWER International Conference on Machine Learning (ICML), 2019 SIAM International Conference on Data Mining (SDM), 2019 ACM Conference on Recommender Systems (RecSys), 2018 (Best Reviewer Nominee) Machine Learning Meets Fashion Workshop@KDD, 2018			
	INVITED JOURNAL REVIEWER ACM Computing Surveys (CSUR) IEEE Transactions on Knowledge and Data Engineering (TKDE) IEEE Access			
	TEACHING ASSISTANT CSE 258: Web Mining and Recommender Systems, UC San Diego, Fall 2018 Problem Solving, Nanjing University, Fall 2015			
	MEDIA COVERAGE	MIT Technology Review, <i>This AI Learns Your Fashion Sense and Invents Your Next Outfit</i> Daily Mail, <i>The AI 'stylist' that learns your fashion sense and invents your next outfit based on what you like and current trends</i> Hindustan Times, <i>Fit to perfection: Now AI fashion designer can create outfits based on your choice</i> Yahoo Finance, <i>Scientists develop AI system that can 'design clothes'</i> UCSD CSE Newsletter, <i>Neural Nets on the (Fashion) Runway</i> BT, <i>Let AI dress you as scientists develop a system that designs your wardrobe</i> The Merkle, <i>The Fashion Industry May Soon Get Help From Artificial Intelligence</i> Fossbytes, <i>This AI Invents Your Dresses Like A Fashion Designer, Learns Fashion Sense</i> Quartz, <i>In The Future We'll All Have Personal Stylists Designing Us Customized Cloths</i> EurekAlert!, <i>Researchers trained neural networks to be fashion designers</i> Gadgets Now, <i>AI fashion designer can create outfits based on your choice!</i>		
		CERTIFICATIONS & AFFILIATIONS	Statement of Accomplishment for Machine Learning, <i>Coursera.org</i>	Aug 2013
			Statement of Accomplishment for Convex Optimization, <i>Stanford Online</i>	Apr 2014
			Statement of Accomplishment for Computer Networks, <i>Coursera.org</i>	Oct 2013
Student Membership of ACM			May 2015 – current	
Student Membership of IEEE			Aug 2017 – current	
Student Membership of China Computer Federation, CCF		Sep 2015 – Dec 2016		