

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 product recommendation (under review)

Adobe Research, Adobe

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: 314

Semantic Scholar Highly Influential Citations: 68

- [1] Wang-Cheng Kang, Eric Kim, Jure Leskovec, Charles Rosenberg, Julian McAuley, *Complete the Look: Scene-based Complementary Product Recommendation*, in submission
- [2] Wang-Cheng Kang, Julian McAuley, *Self-Attentive Sequential Recommendation*, IEEE International Conference on Data Mining, **ICDM'18** (acceptance rate 9%, Travel Grant Award)
- [3] 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%)
- [4] Wang-Cheng Kang, Julian McAuley, *Learning Consumer and Producer Embeddings for User-Generated Content Recommendation*, ACM Conference on Recommender Systems, **RecSys'18** (short paper)
- [5] 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, Invited Paper)
- [6] 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)
- [7] Ruining He, Wang-Cheng Kang, Julian McAuley, *Translation-based Recommendation*, ACM Conference on Recommender Systems, **RecSys'17 (Best Paper Runner-up)**
- [8] Wang-Cheng Kang, Wu-Jun Li, Zhi-Hua Zhou, *Column Sampling based Discrete Supervised Hashing*, AAAI Conference on Artificial Intelligence, **AAAI'16**

[9] 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 2nd Most Cited Paper, 2/551)

**HONORS
& AWARDS**

Best Paper Runner-up Aug 2017
ACM RecSys

Powell Fellowship Sep 2016
UC San Diego

CCF Outstanding Undergraduate Award Aug 2015
China Computer Federation, CCF

Microsoft Young Fellowship Jul 2015
Microsoft Research Asia, MSRA

Best Development Award (Champion) of Suning IT Elites Competition May 2014
Suning Commerce Group Co., Ltd.

Two **Gold Medals** of ACM-ICPC Asia Regional Contests Oct 2013, Nov 2013
Association for Computing Machinery, ACM

3rd Place of Tencent Hackathon National Finals Sep 2013
Tencent Holdings Ltd

Silver Medal of National Olympiad in Informatics Aug 2011
China Computer Federation, CCF

**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)
ACM Transactions on the Web (TWEB)
IEEE Access
PeerJ Computer Science

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, *This AI Learns Your Fashion Sense and Invents Your Next Outfit*
Daily Mail, *The AI 'stylist' that learns your fashion sense and invents your next outfit based on what you like and current trends*
Hindustan Times, *Fit to perfection: Now AI fashion designer can create outfits based on your choice*
Yahoo Finance, *Scientists develop AI system that can 'design clothes'*
UCSD CSE Newsletter, *Neural Nets on the (Fashion) Runway*
BT, *Let AI dress you as scientists develop a system that designs your wardrobe*
The Merkle, *The Fashion Industry May Soon Get Help From Artificial Intelligence*
Fossbytes, *This AI Invents Your Dresses Like A Fashion Designer, Learns Fashion Sense*
Quartzly, *In The Future We'll All Have Personal Stylists Designing Us Customized Cloths*
EurekAlert!, *Researchers trained neural networks to be fashion designers*
Gadgets Now, *AI fashion designer can create outfits based on your choice!*

CERTIFICATIONS	Statement of Accomplishment for Machine Learning, <i>Coursera.org</i>	Aug 2013
& AFFILIATIONS	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