

Chao-Yuan Wu

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EDUCATION

- 2015-present **University of Texas at Austin**, Austin, TX, USA
Ph.D. in Computer Science
• Advisor: Prof. Philipp Krähenbühl
- 2013-2015 **Carnegie Mellon University**, Pittsburgh, PA, USA
M.S. in Machine Learning
• Advisor: Prof. Alex Smola
- 2007-2012 **National Taiwan University**, Taipei, Taiwan
B.S. in Electrical Engineering
- 2011-2012 **Kyushu University**, Fukuoka, Japan
• Research exchange student

RESEARCH INTERESTS

Computer Vision

- Deep embedding learning [ICCV 2017]
- Action recognition in videos.

Recommender systems & user modeling

- Recurrent recommender networks [WSDM 2017] [ICLR workshop 2017]
- User query modeling [WWW 2017]
- Jointly modeling ratings and reviews [KDD 2014] [WWW 2016 (poster)]
- Using navigation to improve recommendations [RecSys 2016]

Statistical machine learning

- Spectral methods for nonparametric models [NIPS workshop 2015] [arXiv preprint 2017]
- Primal-dual coordinate descent [ICML 2017]

SELECT PUBLICATIONS

- 9 **Sampling Matters in Deep Embedding Learning**
Chao-Yuan Wu, R Manmatha, Alex Smola, Philipp Krähenbühl, *ICCV* 2017
- 8 **Doubly Greedy Primal-Dual Coordinate Descent for Sparse Empirical Risk Minimization**
Qi Lei, Ian En-Hsu Yen, Chao-Yuan Wu, Inderjit S Dhillon, Pradeep Ravikumar, *ICML* 2017
- 7 **Recurrent Recommender Networks**
Chao-Yuan Wu, Amr Ahmed, Alex Beutel, Alex Smola, How Jing, *WSDM* 2017
- 6 **Predicting Latent Structured Intents from Shopping Queries**
Chao-Yuan Wu, Amr Ahmed, Gowtham Ramani Kumar, Ritendra Datta, *WWW* 2017
- 5 **Joint Training of Ratings and Reviews with Recurrent Recommender Networks**
Chao-Yuan Wu, Amr Ahmed, Alex Beutel, Alex Smola, *ICLR Workshop* 2017
- 4 **Spectral Methods for Nonparametric Models**
Hsiao-Yu Fish Tung, Chao-Yuan Wu, Manzil Zaheer, Alex Smola, *arXiv preprint*, 2017
- 3 **Explaining reviews and ratings with PACO: Poisson Additive Co-Clustering**
Chao-Yuan Wu, Alex Beutel, Amr Ahmed, Alex Smola, *WWW* 2016 (Poster)

- 2 **Using Navigation to Improve Recommendations in Real-time**
Chao-Yuan Wu, Christopher V Alvino, Alex Smola, Justin Basilico, *RecSys* 2016
- 1 **Jointly Modeling Aspects, Ratings and Sentiments for Movie Recommendation (JMARS)**
Qiming Diao, Minghui Qiu, Chao-Yuan Wu, Alex Smola, Jing Jiang, Chong Wang, *KDD* 2014

TALKS

- 5.10.2017 **Amazon Machine Learning Conference**
Title: Sampling Matters in Deep Embedding Learning.
- 7.28.2015 **Quora Inc.** (host: Dr. Xavier Amatriain)
Title: Joint Modeling of Ratings and Reviews.
- 8.29.2014 **University of Illinois at Urbana-Champaign**
CS591 Seminar: Advanced Topics on Data Mining
Title: Jointly Modeling Aspects, Ratings and Sentiments for Recommendation.
- 10.17.2014 **Netflix Inc.** (host: Dr. Xavier Amatriain)
Title: Joint Modeling of Movie Ratings and Reviews & Spectral Methods.
- 10.20.2014 **Google Inc.** (host: Dr. Sujith Ravi)
Title: Spectral Methods for Hierarchical Dirichlet Processes & Jointly Modeling for Movie Recommendation.

WORK EXPERIENCE

- Sep 2016-
Dec 2017 **Amazon**, Palo Alto, CA
Applied Scientist Intern
• Deep embedding learning [ICCV 2017] and action recognition in videos.
- May-Aug
2016 **Google**, Mountain View, CA
Intern
• Shopping query modeling [WWW 2017].
- Jan-Aug
2015 **Netflix**, Los Gatos, CA
Research intern
• Modeling navigation signals in recommender systems [RecSys 2016].
- Aug 2012-
Sep 2013 **Taiwan Army**, Taiwan
Second lieutenant, Chief counselor
- Jul-Aug
2011 **Yahoo!**, Taiwan
Software engineering intern
- Jul-Aug
2010 **Telcordia Technologies**, Taiwan
Software engineering intern

SKILLS

Programming: C/C++, Python, Java.
Languages: English (fluent), Chinese (native), Japanese (conversant).