YUSAN LIN

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Last updated: April 18th, 2021

EDUCATION

The Pennsylvania State University

August 2012 - December 2018

Ph.D. in Computer Science and Engineering

Dissertation: "Machine-Learning-Based Approaches for Learning Marketing Strategies"

National Central University

August 2008 - June 2012

B.S. Computer Science and Information Engineering

Presidential Award (top 3 students)

WORK EXPERIENCE

Visa Research

December 2018 - Present

Staff Research Scientist and Technical Team Lead

Palo Alto, CA

- · Developed fashion recommendation system using deep learning models
- · Published two workshop papers in CVPR 2019 and KDD 2019
- · Published two full research paper in The WebConf 2020 and SIGIR 2021
- · Led the Security Analytics team, developed and deployed employee attrition prediction model and peer grouping detection model
- · Leading the Anomaly Detection Platform team, developed and deployed change point detection and feature weighting pipeline for multivariate time series
- · Filed four provisional patents:

System, Method, and Computer Program Product for a Set of Items to a User (Ref. number: 3689US01) Methods and Systems For Peer Grouping in Insider Threat Detection (Ref. number: 4113US01) System, Method and Computer Program Product for User Network Activity Anomaly Detection (Ref. number 5156US01)

Structured Graph Convolution Networks with Stochastic Masks for Network Embeddings (Ref. number 5508US01)

Visa Research

Feb 2018 - May 2018

Research Scientist Intern

Palo Alto, CA

· Filed one provisional patent: System, Method, and Computer Program Product for Predicting User Preference of Items in an Image (Ref. number: 2957US01)

PUBLICATION

- Huiyuan Chen, Lan Wang, **Yusan Lin** Michael Yeh, Fei Wang and Hao Yang, Structured Graph Convolutional Networks with Stochastic Masks for Recommender Systems, International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 21), online, Jul. 2021 (to appear)
- Yusan Lin, Peifeng Yin, Wang-Chien Lee, *Economic Worth-Aware Word Embeddings*, IEEE International Conference on Data Science and Advanced Analytics (DSAA 20), Sydney, Australia, Oct. 2020
- Yusan Lin, Maryam Moosaei, Hao Yang, OutfitNet: Fashion Outfit Recommendation with Attention-Based Multiple Instance Learning, IW3C2 The Web Conference (WWW 20), Taipei, Taiwan, Apr. 2020

- Yusan Lin, Hao Yang, Next-Season Design Prediction on High-Fashion Runway, ACM SIGKDD Workshop on AI for Fashion (KDD 19), Anchorage, AK, United States, Aug. 2019
- Yusan Lin, Maryam Moosaei, Hao Yang, Learning Personal Tastes in Choosing Fashion Outfits, Understanding Subjective Attributes of Data: Focus on Fashion and Subjective Search workshop (CVPR 19), Long Beach, CA, United States, Jun. 2019
- Yusan Lin, Peifeng Yin, Wang-Chien Lee, Modeling Dynamic Market Competition on Crowdfunding, IW3C2 The Web Conference (WWW 18), Lyon, France, Apr. 2018
- Yusan Lin, Peifeng Yin, Wang-Chien Lee, Modeling Menu Bundle Designs of Crowdfunding Projects, ACM Conference on Information and Knowledge Management (CIKM 17), Singapore, Nov. 2017
- Yusan Lin, Tawei Wang, Dress Up Like a Stylist? Learning from A User-Generated Fashion Network, 20th ACM SIGKDD Workshop on Machine Learning Meets Fashion (KDD 17), Halifax, Canada, Aug. 2017
- Jorge Alé Chilet, Cuicui Chen, **Yusan Lin**, Analyzing Social Media Marketing in the High-End Fashion Industry Using Named Entity Recognition, IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 16), San Francisco, CA, Aug. 2016
- Yusan Lin, Chung-Chou H. Chang, Wang-Chien Lee, Analyzing Social Media Marketing in the High-End Fashion Industry Using Named Entity Recognition, IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 16), San Francisco, CA, Aug. 2016
- Yusan Lin, Heng Xu, Yilu Zhou, Wang-Chien Lee, Styles in the Fashion Social Network: An Analysis on Lookbook.nu, International Social Computing, Behavioral Modeling and Prediction Conference (SBP15), 2015
- Yusan Lin, Yilu Zhou, Heng Xu, Text-Generated Fashion Influence Model: An Empirical Study on Style.com, Hawaii International Conference on System Sciences (HICSS 15), Kauai, HI, Jan. 2015
- Yusan Lin, Yilu Zhou, Heng Xu, The Hidden Influence Network in the Fashion Industry, Workshop on Information Technologies and Systems (WITS 14), Auckland, New Zealand, Nov. 2014

PATENTS

Structured Graph Convolution Networks with Stochastic Masks for Network Embeddings

2021

Reference number: 5508US01

System, Method and Computer Program Product for User Network Activity Anomaly Detection 2020

Reference number: 5156US01

Methods and Systems For Peer Grouping in Insider Threat Detection

2020

Reference number: 4113US01

System, Method, and Computer Program Product for a Set of Items to a User 2019

Reference number: 3689US01

System, Method, and Computer Program Product for Predicting User Preference of Items in an Image \$2018\$

Reference number: 2957US01

Information & Intelligent Systems Research Grant National Science Foundation, with Wang-Chien Lee (Pennsylvania State Un	iversity)
University Research Council Competitive Research Grant Kellstadt Graduate School of Business, DePaul University, with Ta-Wei War	2017 ng (DePaul University)
Research Grant The Institute for Quantitative Social Science (IQSS), Harvard University, we University), Jorge Alé Chilet (Hebrew University)	2016 ith Cuicui Chen (Harvard
Graduate Student Teaching Award Department of Computer Science and Engineering, Penn State University, o	2016 ne awardee per year
TEACHING EXPERIENCE	
Instructor CMPSC431 W Introduction to Database Management Systems YouTube channel:	Aug 2015 - Dec 2016
$https:// ext{www.youtube.com/channel/UCjkGzGfgvX_Zd8kxs4ldhFw}$	University Park, PA
· Senior-level course with 70 students enrolled on average	
 Received 6.7/7 on the students' evaluations Awarded with graduate student teaching award 	
$ \begin{array}{c} \textbf{Application of Artificial Intelligence in the Fashion Industry} \\ \textbf{Z-} Combinator, \ Taiwan \end{array} $	2021
	2021
Artificial Intelligence in Fashion Keynote, Fashion Technology Week New York, New York	2018
Fashion Meets Data Science Fashion Technology Week New York, Microsoft Flagship Store, New York	2017
Meet the Fashion Data Analyst Working to Predict the Next Big Teen Vogue, Issue: December	Trend 2016
Measuring the Influence of Fashion Designers Data Skeptic Podcast, Episode 68	2015
SERVICE	
DSAA Research Track, Program Chair	2021
DASFAA Technical Program Committee	2021
DSAA Research Track, Program Chair	2020
KDD AI for Fashion, Program Chair	2019
CIKM Applied Research Track, Program Chair	2019