Longqi Yang

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RESEARCH INTERESTS

Intelligent information systems; Personalization; Recommender systems; Machine learning for behavior modeling

EDUCATION

CORNELL UNIVERSITY | PH.D. IN COMPUTER SCIENCE

9/2014 - 5/2019 (Expected) | New York, NY

Advisor: Prof. Deborah Estrin

Committee: Prof. Mor Naaman, Prof. Serge Belongie, Prof. Nicola Dell, and Prof. Claire Cardie

ZHEJIANG UNIVERSITY | B.ENG. IN INFORMATION & COMMUNICATION ENGINEERING

9/2010 - 6/2014 | Hangzhou, China

Graduated with Honor (Ranking: 1/199); Minor in Advanced Class of Eng. Edu., Chu Kochen Honors College

RESEARCH EXPERIENCE

CORNELL TECH | SMALL DATA LAB

9/2014 - Present | New York, NY

Research Assistant with Prof. Deborah Estrin.

Research in behavior modeling, personalization, and recommender systems.

CORNELL TECH | CONNECTED EXPERIENCES LAB

9/2015 - Present | New York, NY

Oath Ph.D. fellow with Prof. Deborah Estrin, Prof. Mor Naaman, and Prof. Serge Belongie.

Research in immersive recommendation systems, and modeling and interacting with audio content.

ADOBE RESEARCH | CREATIVE INTELLIGENCE LAB

9/2016 - 8/2017 | New York, NY

University collaborator and research intern with Dr. Walter Chang, Dr. Chen Fang, Dr. Hailin Jin, and Dr. Matt Hoffman.

Leveraged application usage traces to characterize user skills; benchmarked creative knowledge extraction.

ADOBE RESEARCH | CREATIVE INTELLIGENCE LAB

5/2016 - 8/2016 | San Jose, CA

Research intern with Dr. Chen Fang, Dr. Hailin Jin, and Dr. Matt Hoffman.

Designed and developed cross-platform recommendation systems for web and software users.

MICROSOFT RESEARCH ASIA | MOBILE AND SENSING SYSTEMS GROUP

12/2013 - 3/2014 | Beijing, China

Research intern with Dr. Jacky Shen.

Designed and developed a swiping-based input method for Android.

UNIVERSITY OF CALIFORNIA, LOS ANGELES |NETWORKED & EMBEDDED SYSTEMS LAB

7/2013 - 9/2013 | Los Angeles, CA

Research intern with Prof. Mani Srivastava.

Investigated user privacy leakage from smart home sensor data.

PUBLICATIONS

Peer-reviewed journals:

[3] Characterizing User Skills from Application Usage Traces with Hierarchical Attention Recurrent Networks
Longqi Yang, Chen Fang, Hailin Jin, Matthew D. Hoffman, Deborah Estrin
TIST - *ACM Transactions on Intelligent Systems and Technology, 2018*

[2] Yum-me: A Personalized Nutrient-based Meal Recommender System
Longqi Yang, Cheng-Kang Hsieh, Hongjian Yang, JP Pollak, Nicola Dell, Serge Belongie, Curtis Cole, Deborah Estrin
TOIS - *ACM Transactions on Information Systems, 2017*

[1] Leveraging Multi-Modal Sensing for Mobile Health: a Case Review in Chronic Pain
Min Aung, Faisal Alquaddoomi, Cheng-Kang Hsieh, Mashfiqui Rabbi, *Longqi Yang,* JP Pollak, Deborah Estrin, Tanzeem Choudhury
J-STSP - *IEEE Journal of Selected Topics in Signal Processing, 2016.*

Peer-reviewed conferences:

[12] How Intention Informed Recommendations Modulate Choices: A Field Study of Spoken Word Content
Longqi Yang, Michael Sobolev, Yu Wang, Jenny Chen, Drew Dunne, Christina Tsangouri, Nicola Dell, Mor Naaman, Deborah Estrin
WWW – *International Conference on World Wide Web (The Web Conference), 2019*

[11] More than Just Words: Modeling Non-textual Characteristics of Podcasts
Longqi Yang, Yu Wang, Drew Dunne, Michael Sobolev, Mor Naaman, Deborah Estrin
WSDM - *12th ACM International Conference on Web Search and Data Mining, 2019*

[10] Unbiased Offline Recommender Evaluation for Missing-Not-At-Random Implicit Feedback
Longqi Yang, Yin Cui, Yuan Xuan, Chenyang Wang, Serge Belongie, Deborah Estrin
Recsys - *12th ACM Conference on Recommender Systems, 2018*

[9] Understanding User Interactions with Podcast Recommendations Delivered Via Voice
Longqi Yang, Michael Sobolev, Christina Tsangouri, Deborah Estrin
Recsys - *12th ACM Conference on Recommender Systems, 2018*

[8] Exploring Recommendations Under User-Controlled Data Filtering
Hongyi Wen, *Longqi Yang*, Michael Sobolev, Deborah Estrin
Recsys - *12th ACM Conference on Recommender Systems, 2018*

[7] OpenRec: A Modular Framework for Extensible and Adaptable Recommendation Algorithms
Longqi Yang, Eugene Bagdasaryan, Joshua Gruenstein, Cheng-Kang Hsieh, Deborah Estrin
WSDM - *11th ACM International Conference on Web Search and Data Mining, 2018*

[6] Personalizing Software and Web Services by Integrating Unstructured Application Usage Traces
Longqi Yang, Chen Fang, Hailin Jin, Matthew D. Hoffman, Deborah Estrin
WWW - *25th International Conference on World Wide Web, 2017*

[5] Collaborative Metric Learning
Cheng-Kang Hsieh, *Longqi Yang*, Yin Cui, Tsung-Yi Lin, Serge Belongie, Deborah Estrin
WWW - *25th International Conference on World Wide Web, 2017*

[4] Immersive Recommendation: News and Event Recommendations Using Personal Digital Traces
Cheng-Kang Hsieh, *Longqi Yang*, Honghao Wei, Mor Naaman, Deborah Estrin
WWW - *24th International Conference on World Wide Web, 2016*

[3] YADL: Your Activities of Daily Living
Longqi Yang, Diana Freed, Alex Wu, Judy Wu, John P. Pollak, Deborah Estrin
PervasiveHealth - *10th International Conference on Pervasive Computing Technologies for Healthcare, 2016*

[2] PlateClick: Bootstrapping Food Preferences Through an Adaptive Visual Interface
Longqi Yang, Yin Cui, Fan Zhang, John P. Pollak, Serge Belongie, Deborah Estrin
CIKM - *24th ACM International Conference on Information and Knowledge Management, 2015*

[1] Inferring Occupancy from Opportunistically Available Sensor Data
Longqi Yang, Kevin Ting, Mani B. Srivastava
Percom - *12th IEEE International Conference on Pervasive Computing and Communications, 2014*

Peer-reviewed workshops and demos:

[2] GroupLink: Group Event Recommendations Using Personal Digital Traces
Honghao Wei, Cheng-Kang Hsieh, *Longqi Yang*, Deborah Estrin
CSCW - *19th ACM Conference on Computer Supported Cooperative Work and Social Computing, 2016*

[1] Beyond Classification: Latent User Interests Profiling from Visual Contents Analysis
Longqi Yang, Cheng-Kang Hsieh, Deborah Estrin
ICDM - *IEEE International Conference on Data Mining Workshop, 2015*

Patents:

[2] Personalizing User Experiences With Electronic Content Based on User Representations Learned from Application Usage Data (Publication: 6/21/2018)
Matthew Hoffman, *Longqi Yang*, Hailin Jin, Chen Fang

[1] Recommending Software Actions to Create an Image and Recommending Images to Demonstrate the Effects of Software Actions (Publication: 5/24/2018)
Matthew Hoffman, *Longqi Yang*, Hailin Jin, Chen Fang

LEADERSHIP & PROFESSIONAL SERVICE

RECSYS 2018 TUTORIAL | CO-ORGANIZER
10/2018 | Vancouver, Canada
Co-organized a tutorial on *Modularizing Deep Neural Network-Inspired Recommendation Algorithms.*

KDD 2018 WORKSHOP | CO-ORGANIZER
8/2018 | London, UK
Co-organized a workshop on *Machine Learning and Data Mining for Podcasts (MLDM4P)* with Dr. Yu Wang (Himalaya Media), Dr. Rosie Jones (Spotify Research), and Prof. Deborah Estrin.

CORNELL TECH CLASS OF 2019, 2020 STUDENT ORIENTATION | INVITED PANELIST
8/2018 | New York, NY
Invited to serve on a panel for new student orientation.

CORNELL TECH STUDENT RECRUITMENT | INTERVIEWER
2/2018 | New York, NY
Volunteered to review pre-recorded interviews for computer science master program applicants.

BLOOMBERG DINNER WITH BOARD OF OVERSEERS |STUDENT DELEGATE
2/2018 | New York, NY
Shared research experience with Cornell Tech board of overseers.

NYC MEDIA LAB ANNUAL SUMMIT WORKSHOP | ORGANIZER
9/2017 | New York, NY
Organized a workshop on *Immersive Recommendation.*

FESTIVAL OF SCHOLARSHIP: EXCELLENCE IN RESEARCH | PRESENTER
8/2017 | Ithaca, NY
Represented Ph.D. students at Cornell Tech to present research at the presidential inauguration.

CORNELL COMPUTER SCIENCE PH.D. VISIT DAY | CO-ORGANIZER
3/2017 | Ithaca and New York, NY
Co-organized visit day events for prospective computer science Ph.D. students.

INVITED TALKS AND LECTURES

SPOTIFY RESEARCH
11/2018 | New York, NY
Understanding and Recommending Podcast Content.

RECSYS 2018 TUTORIAL
10/2018 | Vancouver, Canada
Modularizing Deep Neural Network-Inspired Recommendation Algorithms.

STRATA DATA CONFERENCE
9/2018 | New York, NY
Harnessing and customizing state-of-the-art recommendation solutions with OpenRec.

YAHOO! RESEARCH
3/2018 | New York, NY
Recommendation Beyond User-Item Interactions.

CORNELL TECH GUEST LECTURE | CS 5785 Applied Machine Learning
11/2017, 11/2016 | New York, NY
Recommendation Systems: The Matrix and Beyond (75 min lecture).
Food Recommender System: Deep Learning for Food Preference Modeling (75 min lecture).

NYC MEDIA LAB ANNUAL SUMMIT WORKSHOP
9/2017 | New York, NY
Deep User and Content Modeling for Personalization (90 min lecture).

TEACHING ASSISTANCE

CS 5785 Applied Machine Learning | New York, NY, 9/2015 - 12/2015
CS 5300 The Architecture of Large-Scale Information System | Ithaca, NY, 1/2015 - 5/2015
CS 5434 Defending Computer Networks | Ithaca, NY, 9/2014 - 12/2014

ADVISING & MENTORING

Pargol Gheissari | M.S. Cornell Tech, 9/2018 - Present
Yasmeen Hassan | B.S. City University of New York, 9/2018 - Present
Chenyang (Kelly) Wang | M.S. Cornell Tech, 2/2018 - Present
Yuan (Tony) Xuan | M.S. Cornell Tech, 2/2018 - Present
Kriti Singh | M.S. Cornell Tech, 2/2018 - Present
Mohit Chawla | M.S. Cornell Tech, 2/2018 - Present
Amir Biran | B.S. Technion, 8/2018 - 10/2018
Drew Dunne | B.S. Cornell University, 6/2018 - 8/2018
Jenny Chen | B.S. City University of New York, 6/2018 - 8/2018
Christina Tsangouri | B.S. City University of New York, 12/2017-8/2018, now: Ph.D. New York University
Yordanos Goshu | B.S. Cornell University, 9/2017 - 5/2018, now: Goldman Sachs
Josh Gruenstein | Horace Mann School, 6/2017-8/2017, now: B.S. Massachusetts Institute of Technology
Hongjian (Thomas) Yang | M.S. Cornell Tech, 10/2015-12/2015, now: Google Inc.
Honghao Wei | B.S. Tsinghua University, 7/2015-9/2015, now: M.S. Stanford University -> Facebook Inc.