

Weiwei YANG

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CURRENT POSITION

Messenger Ranking Team, Facebook Inc.
Research Scientist (Manager: Xiangyang Liu)
• Privacy-Preserving Machine Learning.

Menlo Park, CA, USA
06/2019—Present

EDUCATION

University of Maryland

Ph.D. in Computer Science

College Park, MD, USA

08/2014—08/2019

Dissertation: Connecting Documents, Words, and Languages using Topic Models

Co-Advisors: Prof. Philip Resnik and Prof. Jordan Boyd-Graber

Dissertation Defended on May 9, 2019.

Advanced to Candidacy on May 3, 2018.

M.Sc. in Computer Science

08/2014—05/2017

Tsinghua University

B.Eng. in Computer Science & Technology

Honor: Excellent Bachelor's Thesis Award

Beijing, China

08/2009—07/2013

RESEARCH EXPERIENCE

CLIP Lab, University of Maryland

Graduate Research Assistant (Advisors: Philip Resnik and Jordan Boyd-Graber)

College Park, MD, USA

01/2015—05/2019

- Bayesian methods and computational linguistics in computational social science.

IAR Team, Tsinghua University

Undergraduate Research Assistant (Advisor: Hua Xu)

Beijing, China

02/2013—03/2014

- Micro-blog user clustering using latent Dirichlet allocation.
- Hierarchical emotion classification and emotion component analysis on Chinese micro-blog posts.

Artificial Intelligence Lab, Stanford University

Undergraduate Visiting Researcher (Advisor: Andrew Ng)

Stanford, CA, USA

06/2012—08/2012

- Matlab library of basic matrix operations implemented in CUDA.
- Time-series modeling using deep learning.

Information Retrieval Team, Tsinghua University

Undergraduate Research Assistant (Advisor: Shaoping Ma)

Beijing, China

10/2011—12/2011

- Impact analysis of Sina Weibo users using PageRank.

WORK EXPERIENCE

YouTube Engineering Team, Google Inc.

Mountain View, CA, USA

Software Engineering Intern (Mentor: Yundi Qian)

05/2018—08/2018

- YouTube video comments ranking using deep learning.

Comcast Labs

Washington, DC, USA

Research Intern (Mentor: Ferhan Ture)

05/2017—08/2017

- Representation learning of closed captions.

Data Science Team, FiscalNote Inc.

Washington, DC, USA

Research Intern (Mentor: Vladimir Eidelman)

06/2016—08/2016

- Authorization and citation link prediction between US statutes and regulations.
- Sentiment analysis and support/oppose classification on US regulation comments.

PUBLICATIONS

Weiwei Yang, Jordan Boyd-Graber, and Philip Resnik. **A Multilingual Topic Model for Learning Weighted Topic Links Across Incomparable Corpora.** Empirical Methods in Natural Language Processing (EMNLP), 2019, Hong Kong, China.

Weiwei Yang, Jordan Boyd-Graber, and Philip Resnik. **Adapting Topic Models using Lexical Associations with Tree Priors.** Empirical Methods in Natural Language Processing (EMNLP), 2017, Copenhagen, Denmark.

Lingzi Hong, **Weiwei Yang**, Philip Resnik, and Vanessa Frias-Martinez. **Uncovering Topic Dynamics of Social Media and News: The Case of Ferguson.** International Conference on Social Informatics (SocInfo), 2016, Bellevue, WA, USA.

Weiwei Yang, Jordan Boyd-Graber, and Philip Resnik. **A Discriminative Topic Model using Document Network Structure.** Association for Computational Linguistics (ACL), 2016, Berlin, Germany.

Weiwei Yang, Jordan Boyd-Graber, and Philip Resnik. **Birds of a Feather Linked Together: A Discriminative Topic Model using Link-based Priors.** Empirical Methods in Natural Language Processing (EMNLP), 2015, Lisbon, Portugal.

PRESENTATIONS

[TBD] **A Multilingual Topic Model for Learning Weighted Topic Links Across Incomparable Corpora.** Empirical Methods in Natural Language Processing (EMNLP), Hong Kong, China, Date TBD, 2019.

[Poster] **Adapting Topic Models using Lexical Associations with Tree Priors.** Empirical Methods in Natural Language Processing (EMNLP), Copenhagen, Denmark, September 10, 2017.

[Talk] **A Discriminative Topic Model using Document Network Structure.** Association for Computational Linguistics (ACL), Berlin, Germany, August 8, 2016.

[Poster] **Birds of a Feather in the Same Nest: A Discriminative Topic Model using Block-based Priors.** Mid-Atlantic Student Colloquium on Speech, Language, and Learning (MASC-SLL), Philadelphia, PA, USA, April 1, 2016.

[Poster] **Birds of a Feather Linked Together: A Discriminative Topic Model using Link-based Priors.** Empirical Methods in Natural Language Processing (**EMNLP**), Lisbon, Portugal, September 19, 2015.

TEACHING EXPERIENCE

Department of Computer Science, University of Maryland College Park, MD, USA
Graduate Teaching Assistant (Instructor: Evan Golub) Fall 2014
CMSC131 Object-Oriented Programming

Department of Computer Science & Technology, Tsinghua University Beijing, China
Undergraduate Teaching Assistant (Instructor: Junhui Deng) Spring 2011
30240184 Data Structures and Algorithms

HONORS AND AWARDS

Dean's Fellowship, University of Maryland, College Park	09/2014
Excellent Bachelor's Thesis Award, Tsinghua University	06/2013
Scholarship for Progress in Study, Tsinghua University	09/2011
Memorial Award at Sohu Cup Artificial Intelligence Program Competition	05/2011
Group Champion at Ma Yuehan Cup Chess Competition, Tsinghua University	04/2010

SERVICES

Reviewer/External Reviewer

- Conference on Computational Natural Language Learning (CoNLL) 2018, 2019
- Association for Computational Linguistics (ACL) 2018, 2019
- North American Chapter of the Association for Computational Linguistics (NAACL) 2019
- Empirical Methods in Natural Language Processing (EMNLP) 2015, 2018
- International Conference on Computational Linguistics (COLING) 2018
- Mid-Atlantic Student Colloquium on Speech, Language, and Learning (MASC-SLL) 2018
- European Chapter of the Association for Computational Linguistics (EACL) 2017

Student Volunteer

- Association for Computational Linguistics (ACL) 2016
- Admission Office of Tsinghua University, Zhejiang Branch 2013

TECHNICAL SKILLS

Java, C/C++, Python, L^AT_EX, Matlab