Weiwei YANG

1 Hacker Way, Menlo Park, CA 94025
wwyang@fb.com ⋄ http://ywwbill.github.io/

CURRENT POSITION

Meta Platforms Inc.　　　　　　　　　　　　　　　　　　　　　Menlo Park, CA, USA
Senior Research Scientist, Messaging Product Machine Learning　　　08/2022—Present
- Provide horizontal support for improving ranking model performance

Research Scientist, Messaging Product Machine Learning　　　　　　06/2019—08/2022

EDUCATION

University of Maryland　　　　　　　　　　　　　　　　　　College Park, MD, USA
Ph.D. in Computer Science　　　　　　　　　　　　　　　　　　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　　　　　　　　　　　　　　　　　　　　　　Beijing, China
B.Eng. in Computer Science & Technology　　　　　　　　　　　　08/2009—07/2013
Honor: Excellent Bachelor's Thesis Award

RESEARCH EXPERIENCE

University of Maryland　　　　　　　　　　　　　　　　　　College Park, MD, USA
Graduate Research Assistant, CLIP Lab　　　　　　　　　　　　　01/2015—05/2019
- Advisors: Philip Resnik and Jordan Boyd-Graber
- Bayesian methods and computational linguistics in computational social science

Tsinghua University　　　　　　　　　　　　　　　　　　　　　　Beijing, China
Undergraduate Research Assistant, IAR Team　　　　　　　　　　　02/2013—03/2014
- Advisor: Hua Xu
- Micro-blog user clustering using latent Dirichlet allocation.
- Hierarchical emotion classification and emotion component analysis on Chinese micro-blog posts.

Undergraduate Research Assistant, Information Retrieval Team　　　　10/2011—12/2011
- Advisor: Shaoping Ma
- Impact analysis of Sina Weibo users using PageRank.

Stanford University　　　　　　　　　　　　　　　　　　　　Stanford, CA, USA
Undergraduate Visiting Researcher, Artificial Intelligence Lab　　　06/2012—08/2012
- Advisor: Andrew Ng
- Matlab library of basic matrix operations implemented in CUDA.
- Time-series modeling using deep learning.

WORK EXPERIENCE

Google Inc.   Mountain View, CA, USA
Software Engineering Intern, YouTube Engineering Team   05/2018—08/2018
- Mentor: Yundi Qian
- YouTube video comments ranking using deep learning.

Comcast Labs   Washington, DC, USA
Research Intern, NLP Team   05/2017—08/2017
- Mentor: Ferhan Ture
- Representation learning of closed captions.

FiscalNote Inc.   Washington, DC, USA
Data Science Intern, Data Science Team   06/2016—08/2016
- Mentor: Vladimir Eidelman
- 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 Corpora with Low Comparability.** Empirical Methods in Natural Language Processing and International Joint Conference on Natural Language Processing (**EMNLP-IJCNLP**), 2019, Hong Kong SAR, 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

[**Talk**] **A Multilingual Topic Model for Learning Weighted Topic Links Across Corpora with Low Comparability**. Empirical Methods in Natural Language Processing and International Joint Conference on Natural Language Processing (**EMNLP-IJCNLP**), Hong Kong SAR, China, November 5, 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

Second Prize, Ghost Hunter Competition, Tsinghua University	05/2020
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, Sohu Cup Artificial Intelligence Program Competition	05/2011
Group Champion, Ma Yuehan Cup Chess Competition, Tsinghua University	04/2010

SERVICES

Reviewer/External Reviewer
- Association for Computational Linguistics (ACL) — 2018, 2019, 2020, 2021
- Empirical Methods in Natural Language Processing (EMNLP) — 2015, 2018, 2020
- AAAI Conference on Artificial Intelligence (AAAI) — 2020
- Conference on Computational Natural Language Learning (CoNLL) — 2018, 2019
- North American Chapter of the Association for Computational Linguistics (NAACL) — 2019
- 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