

# Weiwei YANG

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1 Kechuang Ave, Room 11B501-7, Zhejiang Lab  
Yuhang District, Hangzhou, Zhejiang 311121, P.R. China  
yangww@zhejianglab.com ◊ <https://ywwbill.github.io/>

## CURRENT POSITION

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**Zhejiang Lab** Hangzhou, Zhejiang, China  
*Research Expert, Research Center for High Efficiency Computing Infrastructure* 03/2025—Present

- Leading the Algorithm & Framework Team to build high-efficiency distributed deep learning framework for training and serving LLMs.

*Research Expert, Research Center for High Efficiency Computing System* 2024/01—2025/03  
*Research Expert, Research Center for Intelligent Computing Software* 2023/07—2024/01

## PROFESSIONAL TITLE

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**Assistant Professor** 01/2024

## EDUCATION

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**University of Maryland** College Park, MD, USA  
*M.Sc. in Computer Science* 08/2014—05/2017  
*Ph.D. in Computer Science* 08/2014—08/2019  
Co-Advisors: Prof. Philip Resnik and Prof. Jordan Boyd-Graber  
Dissertation: Connecting Documents, Words, and Languages using Topic Models  
Advanced to Candidacy on May 3, 2018  
Dissertation Defended on May 9, 2019

**Tsinghua University** Beijing, China  
*B.Eng. in Computer Science & Technology* 08/2009—07/2013  
Honor: Excellent Bachelor's Thesis Award

## RESEARCH EXPERIENCE

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**University of Maryland** College Park, MD, USA  
*Graduate Research Assistant, CLIP Lab* 01/2015—05/2019

- Co-Advisors: Philip Resnik and Jordan Boyd-Graber
- Topic models, 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

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- Meta Platforms Inc.** Menlo Park, CA, USA  
*Senior Research Scientist, Messaging Product Machine Learning* 06/2019—06/2023
- Improve user engagement on Messenger and Instagram, example projects:
    - List-wise ranking with LambdaRank
    - Improve model ranking performance with recurring training
    - Use TTSN to improve ranking performance and save resource cost
- 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

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- 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

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[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

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**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

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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

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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