

# Weiwei YANG

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## CURRENT POSITION

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**Messenger Ranking Team, Facebook Inc.**  
*Research Scientist* (Manager: Xiangyang Liu)  
• Improve user engagement on Messenger.

Menlo Park, CA, USA  
06/2019—Present

## EDUCATION

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**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

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**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

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### **YouTube Engineering Team, Google Inc.**

*Software Engineering Intern* (Mentor: Yundi Qian)

Mountain View, CA, USA

05/2018—08/2018

- YouTube video comments ranking using deep learning.

### **Comcast Labs**

*Research Intern* (Mentor: Ferhan Ture)

Washington, DC, USA

05/2017—08/2017

- Representation learning of closed captions.

### **Data Science Team, FiscalNote Inc.**

*Data Science Intern* (Mentor: Vladimir Eidelman)

Washington, DC, USA

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

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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

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|---|------------------|
| • Empirical Methods in Natural Language Processing (EMNLP)                        | 2015, 2018, 2020 |
| • Association for Computational Linguistics (ACL)                                 | 2018, 2019, 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

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

## TECHNICAL SKILLS

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Java, C/C++, Python,  $\text{\LaTeX}$ , Matlab