Weiwei YANG

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CURRENT POSITION

Messenger Ranking Team, Facebook Inc. — Menlo Park, CA, USA
Research Scientist (Manager: Xiangyang Liu) — 06/2019—Present
- Improve user engagement on Messenger.

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

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

IAR Team, Tsinghua University — Beijing, China
Undergraduate Research Assistant (Advisor: Hua Xu) — 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 — Stanford, CA, USA
Undergraduate Visiting Researcher (Advisor: Andrew Ng) — 06/2012—08/2012
- Matlab library of basic matrix operations implemented in CUDA.
- Time-series modeling using deep learning.

Information Retrieval Team, Tsinghua University — Beijing, China
Undergraduate Research Assistant (Advisor: Shaoping Ma) — 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
Data Science 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 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

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
- 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
- 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, LaTeX, Matlab