Weiwei YANG

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FUTURE POSITION

Zhejiang Lab — Hangzhou, Zhejiang, China
Research Specialist, Research Center for Intelligent Computing Software — Start in 07/2023
- Project TBD

EDUCATION

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

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

Meta Platforms Inc. — Menlo Park, CA, USA
Research Scientist, Messaging Product Machine Learning — 06/2019—08/2022
Senior Research Scientist, Messaging Product Machine Learning — 08/2022—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

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