

EDUCATION

University of Pittsburgh, Pittsburgh, PA 2018/09 – 2023/07

Ph.D. in Computer Science, Advisor: Dr. Rebecca Hwa, GPA: 3.9/4.0

Paris-Saclay University, Paris Area, France 2014/09 – 2017/12

M.S. in Applied Mathematics (Diplôme d'Ingénieur from École Centrale Paris), Major GPA 4.0/4.3

Beihang University, Beijing, China 2011/09 – 2014/06

B.S. in Information and Computing Science, Major GPA 3.9/4.0, Rank 1 out of 120

EXPERIENCE

Shopping Ads Quality Team, Google Mountain View, US

Software Engineer Intern 2022/05 – 2022/08

- Improved the product-to-salient-term model by investigating different pre-training strategies and distillation methods.
- Developed a BarnaBERT-based dual-encoder student model that improves the production model by >2.89% on salient term retrieval quality. Our model has shown 0.39% increase (XX million dollars) on Shopping Ads revenue and 0.35% improvement on ads coverage in Live Experiments.

Data Acquisition Intelligence Team, Google Sunnyvale, US

Software Engineer Intern 2020/05 – 2020/08

- Designed a metric for measuring content diversity of web pages by topic modeling on content representations.
- Implemented a framework for computing, evaluating, and interpreting the proposed metric.

Knowledge Acquisition Team, Google Mountain View, US

Software Engineer Intern 2019/04 – 2019/07

- Built a BERT-based two-tower model to extract facts from Wikipedia, which improved the performance by >10% on pre-defined relations and extended the capability of zero-shot extraction for new relations without additional training.
- Conducted experiments on a public relation extraction task TACRE. With F1-score equal to 69.1%, our model ranks among top 3 compared with all state-of-the-art models published in academia by then.

Big Data Lab, Baidu Research Beijing, China & Sunnyvale, US

Research Intern 2018/01 – 2018/06

- Built a framework for automatically learning ontology from the raw text of the open-domain Baidu Wiki (500 million).
- Improved the memory space efficiency of the hierarchical cluster algorithm on large scale data by more than 10 times.

Big Data & AI Department, Allianz France Paris Area, France

Data Scientist Intern (part-time) 2016/09 – 2017/11

- Implemented a production pipeline from the scratch which automatically classifies significant customer feedback data flow by its topic, motivation and sentiment, using machine learning methods.

SELECTED HONORS

CS 50 Fellowship, University of Pittsburgh (2022)

School of Computing and Information Fellowship, University of Pittsburgh (2018)

Gold Medal Award (the top honor for undergraduates), Beihang University (2014)

China National Scholarship, Beihang University (2014, 2012)

University Merit Scholar, Beihang University (2014, 2013, 2012, 2011)

Airbus Scholarship, Beihang University (2013)

PUBLICATIONS

Decoding Symbolism in Language Models. Meiqi Guo, Rebecca Hwa, Adriana Kovashka. Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (ACL-2023).

ImageArg: A Multi-modal Tweet Dataset for Image Persuasiveness Mining. Zhexiong Liu*, Meiqi Guo*, Yue Dai*,

Diane Litman (*equal contribution). Proceedings of the 9th Workshop on Argument Mining, co-located with the 29th International Conference on Computational Linguistics (COLING-2022). **(Best Paper Award)**

Detecting Persuasive Atypicality by Modeling Contextual Compatibility. Meiqi Guo, Rebecca Hwa, Adriana Kovashka. Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV-2021).

Abg-CoQA: Clarifying Ambiguity in Conversational Question Answering. Meiqi Guo, Mingda Zhang, Siva Reddy, Malihe Alikhani. 3rd Conference on Automated Knowledge Base Construction (AKBC-2021).

Inflating Topic Relevance with Ideology: A Case Study of Political Ideology Bias in Social Topic Detections Models. Meiqi Guo, Rebecca Hwa, Yu-Ru Lin, Wen-Ting Chung. Proceedings of the 28th International Conference on Computational Linguistics (COLING-2020).

MimicProp: Learning to Incorporate Lexicon Knowledge into Distributed Word Representation for Social Media Analysis. Muheng Yan, Yu-Ru Lin, Rebecca Hwa, Ali Mert Ertugrul, Meiqi Guo, Wen-Ting Chung. Proceedings of the 14th International AAAI Conference on Web and Social Media (ICWSM-2020).

SKILLS & ACTIVITIES

Technical skills | Frequent user of Python, Pytorch, Language C/C++, Flume, Hadoop, Spark, R studio and Matlab

Languages | Native speaker of Chinese, fluent in English and French

Professional Service | Member of the review committee at Annual Meeting of the Association for Computational Linguistics (ACL 2023), Conference on Empirical Methods in Natural Language Processing (EMNLP 2023, 2022, 2021), Conference of the European Chapter of the Association for Computational Linguistics (EACL 2023), British Machine Vision Conference (BMVC 2022), and IEEE/ACM Transactions on Audio, Speech and Language Processing

Leadership | Founder & Co-President of Chinese Students and Scholars Union of CentraleSupélec (2015 - 2016)

Hobby | Passionate skier, PSIA certified alpine skiing instructor