

MEIQI GUO

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EDUCATION

University of Pittsburgh <i>Ph.D. in Computer Science; Advisor: Dr. Rebecca Hwa; GPA: 3.9</i>	Pittsburgh, PA 2018 – 2023
Beihang University <i>M.S. in Aerospace Science and Technology (Double degree); Advisor: Dr. Zhidong Guan</i>	Beijing, China 2017 – 2018
Paris-Saclay University - École Centrale Paris <i>M.S. in Applied Math (Diplôme d'Ingénieur); Advisor: Dr. Frédéric Cazals; GPA: 3.8</i>	Paris Area, France 2014 – 2017
Beihang University <i>B.S. in Information and Computing Science; GPA: 3.9; Rank 1st in the class (1/120)</i>	Beijing, China 2011 – 2014

EXPERIENCE

Google Deepmind, LLM Research <i>Senior Research Scientist</i>	Mountain View, US 2023 – Present
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- **Reasoning:** Core contributor to the launch of Gemini 2.0 Flash Thinking and Gemini 2.5, enhancing LLM reasoning on complex benchmarks (e.g., AIME) via large-scale reinforcement learning. Designed and trained outcome and process reward models, and implemented the RL training framework to support process-level feedback.
- **Personalization:** Led a research project for Personalized Gemini, improving user profile generation quality from long-context interactions using RL from rubric-based feedback.
- **Multimodal Assistant:** Led a 4-person team in advancing Astra's tool-use capabilities, designing evaluation frameworks and boosting performance by synthesis of supervised fine-tuning (SFT) and RL training data.
- **Inference Efficiency:** Led an effort to improve LLM inference efficiency through dynamic computing, particularly Early-Exit architectures. Developed and trained adapters and routers via SFT and RL.
- **Modularity:** Contributed to research on a new paradigm for Mixture-of-Experts models, focusing on modular and scalable LLM architectures.

Google, Shopping Ads Quality Team <i>Software Engineer Intern</i>	Mountain View, US 2022
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- Optimized product-to-salient-term model using pre-training strategies and distillation methods. Developed a BarnaBERT-based dual-encoder model achieving 2.89% improvement in retrieval quality.
- Demonstrated 0.39% revenue gain (approx. XX million dollars) and 0.35% ads coverage improvements.

Google, Data Acquisition Intelligence Team <i>Software Engineer Intern</i>	Sunnyvale, US 2020
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- Designed a metric for measuring content diversity of web pages using topic modeling methods.
- Built a framework for computing, evaluating, and interpreting the proposed metric.

Google, Knowledge Acquisition Team <i>Software Engineer Intern</i>	Mountain View, US 2019
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- Developed a BERT-based two-tower model for Wikipedia fact extraction, achieving 10% improvement.
- Achieved top-3 performance on the TACRE relation extraction benchmark at the time.

Baidu Research, Big Data Lab
Research Intern

Beijing, China & Sunnyvale, US
2018

- Built a framework for ontology learning from Baidu Wiki’s open-domain text.
- Enhanced cluster algorithm efficiency by over 10 times for large-scale data.

Allianz France, Big Data & AI Department
Data Scientist Intern (Part-time)

Paris Area, France
2016 – 2017

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

SELECTED HONORS

- **2022:** CS 50 Fellowship, University of Pittsburgh
- **2018:** School of Computing and Information Fellowship, University of Pittsburgh
- **2014:** Gold Medal Award, Beihang University (the top undergraduate honor)
- **2014, 2012:** China National Scholarship, Beihang University
- **2013:** Airbus Scholarship, Beihang University
- **2011-2014:** University Merit Scholar, Beihang University

SELECTED PUBLICATIONS

- **Gemini 2.5: Pushing the Frontier with Advanced Reasoning, Multimodality, Long Context, and Next Generation Agentic Capabilities.** Gemini Team. 2025.
- **MODE: Effective Multi-task Parameter Efficient Fine-Tuning with a Mixture of Dyadic Experts.** Lin Ning, Harsh Lara, Meiqi Guo, Abhinav Rastogi. NAACL Findings 2025.
- **Improve Mathematical Reasoning in Language Models by Automated Process Supervision.** Liangchen Luo, Yinxiao Liu, Rosanne Liu, Samrat Phatale, Meiqi Guo, et al. 2024.
- **Decoding Symbolism in Language Models.** Meiqi Guo, Rebecca Hwa, Adriana Kovashka. ACL-2023.
- **Modeling visual rhetorics for persuasive media through self-supervised learning.** Meiqi Guo. Thesis 2023.
- **ImageArg: A Multi-modal Tweet Dataset for Image Persuasiveness Mining.** Zhexiong Liu*, Meiqi Guo*, Yue Dai*, Diane Litman. Workshop on Argument Mining in COLING-2022 (Best Paper Award).
- **Detecting Persuasive Atypicality by Modeling Contextual Compatibility.** Meiqi Guo, Rebecca Hwa, Adriana Kovashka. ICCV-2021.
- **Abg-CoQA: Clarifying Ambiguity in Conversational Question Answering.** Meiqi Guo, Mingda Zhang, Siva Reddy, Malihe Alikhani. 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. COLING-2020.

SKILLS & ACTIVITIES

- **Technical Skills:** Python, PyTorch, Jax, C/C++, Flume, Spark, R, MATLAB
- **Languages:** Chinese (native), English (fluent), French (fluent)

- **Professional Service:** Reviewer & Area Committee: ACL, EMNLP, EACL, BMVC, NAACL, COLM, CVPR, AISTATS, IEEE/ACM Transactions
- **Leadership:** Founder & Co-President, Chinese Students and Scholars Union of CentraleSupélec (2015-2016)
- **Hobbies:** PSIA certified lv2 alpine skiing instructor, passionate skier