Xinyi (Cindy) Wang

✉ cindyxinyiwang@gmail.com
cindyxinyiwang.github.io

Education

2017–2022 **PhD Language Technologies** GPA: 4.00/4.33
Carnegie Mellon University. Pittsburgh, PA
Advisor: Graham Neubig

2013–2017 **BS Computer Science, BA Economics** GPA: 3.99/4.0
University of Notre Dame. Notre Dame, IN

Experience

Sep. 2022-Now **Google DeepMind**, *Research Scientist*, New York, NY.
- Led research efforts on LLM factuality for Google's generative search which enables product launch for several key languages.
- Synthetic data generation with specialist models for Gemini training.

Summer 2020 **Google Translate**, *Research Intern*, Remote.
Automatic data selection for machine translation

Summer 2019 **Facebook AI Research**, *Research Intern*, New York, NY.
Better models for long-form question answering

Selected Papers (see full list here)

1. Language and task arithmetic with parameter-efficient layers for zero-shot summarization
A. Chronopoulou, J. Pfeiffer, J. Maynez, **X. Wang**, S. Ruder, and P. Agrawal EMNLP-MRL 2024

2. Inducing generalization across languages and tasks using featurized low-rank mixtures
C.-C. Lin, **X. Wang**, J. H. Clark, H. Lu, Y. Zhu, C. Whitehouse, and H. Yu arXiv 2024

3. Kitten: A knowledge-intensive evaluation of image generation on visual entities
H.-P. Huang, **X. Wang**, Y. Bitton, H. Taitelbaum, G. S. Tomar, M.-W. Chang, X. Jia, K. C. Chan, H. Hu, Y.-C. Su, and M.-H. Yang arXiv 2024

4. Gemini: a family of highly capable multimodal models
G. team arXiv 2023

5. Evaluating and modeling attribution for cross-lingual question answering
B. Muller, J. Wieting, J. H. Clark, T. Kwiatkowski, S. Ruder, L. B. Soares, R. Aharoni, J. Herzig, and **X. Wang** EMNLP 2023

6. Expanding pretrained models to thousands more languages via lexicon-based adaptation
X. Wang, S. Ruder, and G. Neubig ACL 2022

7. Efficient test time adapter ensembling for low-resource language varieties
X. Wang, Y. Tsvetkov, S. Ruder, and G. Neubig EMNLP Findings 2021

8. Multi-view subword regularization
X. Wang, S. Ruder, and G. Neubig NAACL 2021

9. Balancing training for multilingual neural machine translation
X. Wang, Y. Tsvetkov, and G. Neubig ACL 2020

10. Optimizing data usage via differentiable rewards
X. Wang, H. Pham, P. Mitchel, A. Anastasopoulos, J. Carbonell, and G. Neubig ICML 2020

11. A probabilistic formulation of unsupervised text style transfer
J. He*, **X. Wang***, G. Neubig, and T. Berg-Kirkpatrick ICLR 2020
(Spotlight)

12. Multilingual neural machine translation with soft decoupled encoding
X. Wang, H. Pham, P. Arthur, and G. Neubig ICLR 2019

13. Switchout: an efficient data augmentation algorithm for neural machine translation
X. Wang, H. Pham, Z. Dai, and G. Neubig EMNLP 2018

(* *denotes equal contribution.*)

Honors and Awards

2020 **Apple Scholars in AI/ML Fellowship**, *Apple*.
2020 **Outstanding Reviewer**, *NeurIPS*.
2019 **Best Demo Paper Runner-up**, *NAACL*.
2017 **Outstanding CS Graduate**, *University of Notre Dame*.
2017 **Theodore S. Weber Award for the economics graduate**, *University of Notre Dame*.
2016-2017 **Tau Beta Pi Engineering Scholarship**, *University of Notre Dame*.
Fall 2015 **Grace Hopper Scholarship**, *Travel Award to Grace Hopper Conference*.
2013-2016 **Dean's List**, *All Semesters*, University of Notre Dame.
2013 **Greater China Scholarship**, *University of Notre Dame*.

Professional Services

Program Committee: WIT 2022, EMNLP, NAACL, MTSummit, AMTA
Reviewer: ACL, ACL Rolling review, NeurIPS (outstanding reviewer 2020), ICML, ICLR, CSCW
Journal Reviewer: IEEE Transactions on Audio, Speech and Language Processings

Teaching

Fall 2020 Multilingual Natural Language Processing *Carnegie Mellon University, TA*
Fall 2019 Machine Translation and Seq-to-seq Models *Carnegie Mellon University, TA*
Fall 2016 Design and Analysis of Algorithms *University of Notre Dame, TA*
Spring 2016 Theory of Computing *University of Notre Dame, TA*