

# Xinyi (Cindy) Wang

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## Education

- 08/2017–06/2022 **Carnegie Mellon University**, *Pittsburgh, PA.*  
Ph.D., Language Technologies  
Advisor: Graham Neubig  
GPA: 4.00/4.33
- 08/2013–05/2017 **University of Notre Dame**, *Notre Dame, IN.*  
summa cum laude, B.S. in Computer Science, B.A. in Economics  
GPA: 3.99/4.00

## Experience

### Research

- September 2022–Now **Google Research**, *Research Scientist*, New York, NY.  
Multilingual Natural Language Processing, Cross-lingual Question Answering
- Summer 2020 **Google Translate**, *Research Intern*, Remote from Pittsburgh.  
Hosts: Ankur Bapna, Melvin Johnson, Orhan Firat
- Summer 2019 **Facebook AI Research**, *Research Intern*, New York, NY.  
Hosts: Yacine Jernite, Jason Weston, Michael Auli
- 02/2016–05/2017 **University of Notre Dame.**  
Advisor: David Chiang
- Summer 2017 **Tsinghua University.**  
Host: Yang Liu

### Industry

- Summer 2016 **LinkedIn Inc.**, *Software Engineering Intern*, Mountain View, CA.  
Summer 2015 **Google Inc.**, *Engineering Practicum Intern*, Mountain View, CA.

## Honors and Awards

- 2020 **Apple Scholars in AI/ML Fellowship.**
- 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.*

## Publication

- 2022 **Xinyi Wang**, Sebastian Ruder, Graham Neubig. Expanding Pretrained Models to Thousands More Languages via Lexicon-based Adaptation . In ACL

- 2022 Brian Yan, Patrick Fernandes, Siddharth Dalmia, Jiatong Shi, Yifan Peng, Dan Berrebbi, **Xinyi Wang**, Graham Neubig, Shinji Watanabe. CMUs IWSLT 2022 Dialect Speech Translation System. 2022. In IWSLT.
- 2021 **Xinyi Wang**, Yulia Tsvetkov, Sebastian Ruder, Graham Neubig. Efficient Test Time Adapter Ensembling for Low-resource Language Varieties. In EMNLP Findings
- 2021 **Xinyi Wang**, Sebastian Ruder, Graham Neubig. Multi-view Subword Regularization. In NAACL
- 2021 Hieu Pham\*, **Xinyi Wang\***, Yiming Yang, Graham Neubig. Meta Back Translation. In ICLR
- 2020 **Xinyi Wang**, Yulia Tsvetkov, Graham Neubig. Balancing Training for Multilingual Neural Machine Translation. In ACL
- 2020 **Xinyi Wang\***, Hieu Pham\*, Paul Mitchel, Antonis Anastasopoulos, Jaime Carbonell, Graham Neubig. Optimizing Data Usage via Differentiable Rewards. In ICML
- 2020 Junxian He\*, **Xinyi Wang\***, Graham Neubig, Taylor Berg-Kirkpatrick. A Probabilistic Formulation of Unsupervised Text Style Transfer. In ICLR
- 2020 Luyu Gao, **Xinyi Wang**, Graham Neubig. Improving Target-side Lexical Transfer in Multilingual Neural Machine Translation. 2020. In Findings of EMNLP.
- 2019 **Xinyi Wang**, Graham Neubig. Target Conditioned Sampling: Optimizing Data Selection for Multilingual Neural Machine Translation. In ACL
- 2019 **Xinyi Wang**, Hieu Pham, Philip Arthur, Graham Neubig. Multilingual Neural Machine Translation with Soft Decoupled Encoding. In ICLR
- 2019 Zi-Yi Dou, **Xinyi Wang**, Junjie Hu, Graham Neubig. Domain Differential Adaptation for Neural Machine Translation. 2019. In WNGT.
- 2019 Graham Neubig, Zi-Yi Dou, Junjie Hu, Paul Michel, Danish Pruthi, **Xinyi Wang**, John Wieting. compare-mt: A Tool for Holistic Comparison of Language Generation Systems. 2019. In NAACL. **Best Demo Runner-up**
- 2018 **Xinyi Wang**, Hieu Pham, Pengcheng Yin, Graham Neubig. A Tree-based Decoder for Neural Machine Translation. 2018. In EMNLP.
- 2018 **Xinyi Wang\***, Hieu Pham\*, Zihang Dai, Graham Neubig. SwitchOut: an Efficient Data Augmentation Algorithm for Neural Machine Translation. 2018. In EMNLP.
- 2018 **Xinyi Wang**, Salvador Aguinaga, Tim Weninger, David Chiang. Growing Better Graphs With Latent-Variable Probabilistic Graph Grammars. 2018. In KDD Workshop on Mining and Learning with Graphs.
- 2018 Graham Neubig, Matthias Sperber, **Xinyi Wang**, Matthieu Felix, Austin Matthews, Sarguna Padmanabhan, Ye Qi, Devendra Singh Sachan, Philip Arthur, Pierre Godard, John Hewitt, Rachid Riad, Liming Wang. XNMT: The eXtensible Neural Machine Translation Toolkit. 2018. In AMTA.

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## 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**

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## Teaching

Fall 2020 **Multilingual Natural Language Processing**

*Carnegie Mellon University, TA*

Fall 2019 **Machine Translation and Seq-to-seq Models**  
Fall 2016 **Design and Analysis of Algorithms**  
Spring 2016 **Theory of Computing**

*Carnegie Mellon University, TA*  
*University of Notre Dame, TA*  
*University of Notre Dame, TA*

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## Mentoring

Summer 2021 **Camille DeJarnett**  
2020-2021 **Amy Li**  
2019-2020 **Luyu Gao**

*PhD at Stanford University*  
*Undergrad at Carnegie Mellon University*  
*MLT at Carnegie Mellon University*