

Kayo YIN

PERSONAL INFO

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EDUCATION

AUG. 2022 | PhD in COMPUTER SCIENCE
- Current | **UC Berkeley**, Berkeley, CA
Advisor: Prof. Jacob Steinhardt and Prof. Dan Klein

SEP. 2020 | Master in LANGUAGE TECHNOLOGIES
-MAY. 2022 | **Carnegie Mellon University**, Pittsburgh, PA
QPA: 4.02
Advisor: Prof. Graham Neubig
Graduate Student Representative, CMQ+ Board, Flute (AUO), Piano (CFA), Climbing Team, Bagpipes

SEP. 2017 | Bachelor of Science in MATHEMATICS and COMPUTER SCIENCE
-JUN. 2020 | **École Polytechnique**, Paris, France
GPA: 4.15/4.0+, Summa Cum Laude
Thesis: Sign Language Translation with Transformers (A+)
Flute (OPS), Saxophone (Fanfare), Soprano (Ensemble Vocal), Women's Soccer, VP of Origami Club, Caving

Study Abroad
National Chiao Tung University, Hsinchu, Taiwan
GPA: 4.30/4.0+
Erhu (Chinese Orchestra), Piano Club, Harmonica Band, Martial Arts Club, Buddhist Club

SEP. 2014 | High School Diploma, Baccalauréat Général Option Internationale Américaine (OIB)
-JUN. 2017 | **École Jeannine Manuel**, Paris, France
Grade: 18.25/20, Mention Très Bien
Série Scientifique, Spécialité Mathématiques (*Scientific Track, Mathematics Specialty*)
Flute (Chamber Orchestra, Jazz Band), Acapella, Art Club, Green Club, Debate Club, Physics Club

SEP. 2013 | Certificat d'Études Musicales in SOLFÈGE (Baccalauréat-level diploma of music)
-JUN. 2016 | **Conservatoire Frédéric Chopin**, Paris, France
Mention Très Bien
Major: Flute & Solfège, Minor: Opera, Classical Ballet, Tap Dance

WORK EXPERIENCE

MAY. 2022 | Research Intern at DEEPMIND, London
- CURRENT | Part of the Language Team, hosted by Chris Dyer.

JUN. 2020 | Research Intern at LA JAVANESS, Paris
- SEP. 2020 | Developed a multi-label email classifier with meta-pseudo labeling.

JAN. 2020 | Thesis Research Intern at LABORATOIRE INFORMATIQUE DE L'X, Paris
- APR. 2020 | Part of the Data Science and Mining (DaSciM) team, advised by Prof. Jesse Read.
Researched Sign Language Translation with Transformers.

SEP. 2019 | Research Scientist at ILLUIN TECHNOLOGY, Paris
- JAN. 2020 | Research unsupervised question answering (QA) in French. Perform data augmentation of French QA data based on heuristics and unsupervised NMT. Develop and train CamemBERT and XLNet for QA.

JUN. 2019 | Research Intern at ILLUIN TECHNOLOGY, Paris
- AUG. 2019 | Denoising scanned documents for OCR, ensemble model with CNN and XGB meta-learners. Research state-of-the-art deep learning methods for medical imagery analysis. Unsupervised question answering based on Cloze generation and unsupervised NMT.

PUBLICATIONS

* = equal contribution

Refereed Papers	SIGNED COREFERENCE RESOLUTION K. Yin, K. DeHaan, M. Alikhani. <i>2021 Conference on Empirical Methods in Natural Language Processing (EMNLP). November 2021.</i>
	WHEN IS WALL A PARED AND WHEN A MURO?: EXTRACTING RULES GOVERNING LEXICAL SELECTION A. Chaudhary, K. Yin, A. Anastasopoulos, G. Neubig. <i>2021 Conference on Empirical Methods in Natural Language Processing (EMNLP). November 2021.</i>
	DATA AUGMENTATION FOR SIGN LANGUAGE GLOSS TRANSLATION A. Moryossef*, K. Yin*, G. Neubig, Y. Goldberg <i>18th Biennial Machine Translation Summit (MTSummit) 1st International Workshop on Automatic Translation for Signed and Spoken Languages (AT4SSL). August 2021.</i>
	Best Theme Paper INCLUDING SIGNED LANGUAGES IN NATURAL LANGUAGE PROCESSING K. Yin, A. Moryossef, J. Hochgesang, Y. Goldberg, M. Alikhani. <i>59th Annual Meeting of the Association for Computational Linguistics (ACL). August 2021.</i>
	DO CONTEXT-AWARE TRANSLATION MODELS PAY THE RIGHT ATTENTION? K. Yin, P. Fernandes, D. Pruthi, A. Chaudhary, A. Martins, G. Neubig <i>59th Annual Meeting of the Association for Computational Linguistics (ACL). August 2021.</i>
	MEASURING AND INCREASING CONTEXT USAGE IN CONTEXT-AWARE MACHINE TRANSLATION P. Fernandes, K. Yin, G. Neubig, A. Martins <i>59th Annual Meeting of the Association for Computational Linguistics (ACL). August 2021.</i>
	BETTER SIGN LANGUAGE TRANSLATION WITH STMC-TRANSFORMER K. Yin, J. Read. <i>28th International Conference on Computational Linguistics (COLING). December 2020.</i>
	ATTENTION IS ALL YOU SIGN: SIGN LANGUAGE TRANSLATION WITH TRANSFORMERS K. Yin, J. Read. <i>European Conference on Computer Vision (ECCV) Workshop on Sign Language Recognition, Translation and Production (SLRTP). August 2020.</i>
Preprints	INTERPRETING LANGUAGE MODELS WITH CONTRASTIVE EXPLANATIONS K. Yin, G. Neubig
	WHEN DOES TRANSLATION REQUIRE CONTEXT? A DATA-DRIVEN, MULTILINGUAL EXPLORATION K. Yin*, P. Fernandes*, A. Martins, G. Neubig

AWARDS & HONORS

- 2022 Berkeley Fellowship.
- 2022 BAIR Research Ignition Award.
- 2021-2022 Siebel Scholarship.
- 2020-2022 CMU Research Fellowship.
- 2021 **Best Theme Paper** at Association for Computational Linguistics (ACL).
- 2020 **Global Winner in Computer Science** at the Global Undergraduate Awards.
- 2013-2015 **Jeannine Manuel Award** for outstanding academic performance.
- 2015 **Finalist** Concours Kangourou des Mathématiques (Mathematical Kangaroo; 6th place out of 13011).
- 2014 **Best Speaker Award** EJM Debate Club .
- 2012 **Finalist** Concours Kangourou des Mathématiques (Mathematical Kangaroo; 8th place out of 53937).

INVITED TALKS

- JUL. 2022 **Including Signed Languages in NLP**, *IJCAI*
- MAY. 2022 **Including Signed Languages in NLP**, *NLP Highlights*
- NOV. 2021 **Natural Language Processing for Signed Languages**, *DeepMind*
- OCT. 2021 **Extending Neural Machine Translation to Dialogue and Signed Languages**, *University of Pittsburgh*
- SEP. 2021 **Understanding, Improving and Evaluating Context Usage in Context-aware Translation**, *SIGTYP*
- MAR. 2021 **Do Context-Aware Translation Models Pay the Right Attention?**, *Unbabel*
- NOV. 2020 **Sign Language Translation with Transformers**, *The Global Undergraduate Summit*
- OCT. 2020 **Sign Language Translation with Transformers**, *Computer Vision Talks*

PRESS & INTERVIEWS

- JAN. 2022 **Student Spotlight: Kayo Yin**, *The Link*
- OCT. 2021 **Alumni Stories: Kayo Yin, Class of 2017**, *Jeannine Manuel Alumni*
- SEP. 2021 **Five SCS Students Named Siebel Scholars**, *CMU SCS*
- AUG. 2021 **LTI Master's Student Urges NLP Focus on Signed Languages**, *CMU SCS*
- AUG. 2021 **LTI Student Wins Best Theme Paper at ACL-IJCNLP 2021**, *CMU LTI*
- OCT. 2020 **Bachelor of Science Alumni - Kayo at Carnegie Mellon University**, *École Polytechnique*
- SEP. 2020 **Kayo Yin wins the 2020 Global Undergraduate Awards**, *École Polytechnique*
- MAY. 2020 **Testimony: Kayo Yin, BX2020 Maths/Computer Science Student**, *École Polytechnique*
- DEC. 2019 **Meet Kayo Yin, Bachelor Student**, *Women in Science*
- FEB. 2019 **Meet our students - Kayo Yin**, *École Polytechnique*
- JUN. 2018 **Kayo Yin, One-Woman Band**, *A Lifetime of Science*

ACADEMIC SERVICE

- *ACL Rolling Review*, Reviewer 2022
- *International Workshop on Automatic Translation for Signed and Spoken Languages*, Program Committee 2021
- *TransportiX Hackathon*, Mentor 2021
- *French Tournament of Young Mathematicians (TFJM²)*, Jury 2020

CIVIC ENGAGEMENT

- 2020-2022 **Graduate Student Representative**, *Carnegie Mellon University Graduate Student Assembly*
- 2020-2022 **Equity, Diversity and Inclusion Committee**, *Carnegie Mellon University Graduate Student Assembly*
- 2020-2021 **Social Chair**, *CMQ+ (CMU Graduate LGBTQ+ Association)*
- 2018-2020 **Outreach Officer**, *L'Action Sociale de la Kès (Polytechnique Humanitarian Association)*
- 2018-2019 **Organizer**, *Polytechnique Mental Health Awareness Week*
- 2017-2020 **Communications Officer**, *Développement Durable à l'X (Polytechnique Sustainable Development Society)*
- 2017-2020 **Board Member**, *XY (Polytechnique LGBTQ+ Association)*
- 2017-2020 **Member**, *X au Féminin (Polytechnique Women's Society)*

SKILLS AND INTERESTS

NATURAL LANGUAGES: Japanese (Native); French (Native); English (Fluent); Mandarin (Conversant); Spanish (Basic)

PROGRAMMING LANGUAGES: Python (pytorch, jax) , C++, C, Coq

MUSICAL QUALIFICATIONS: CEM in Solfège, Cycle 2 Flute, ABRSM Grade 8 Piano, ABRSM Grade 5 Theory

RESEARCH INTERESTS: Machine Learning, Natural Language Processing

Last updated July 27, 2022