

# Kayo YIN

## PERSONAL DATA

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GOOGLE SCHOLAR: [Kayo Yin](https://scholar.google.com/citations?user=KAYOYIN)

## ACADEMIC QUALIFICATIONS

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- Current** Master in LANGUAGE TECHNOLOGIES  
**Carnegie Mellon University**, Pittsburgh, PA  
QPA: 4.19  
Advisor: Prof. Graham Neubig  
Graduate Student Representative, Social Chair for CMQ+
- JUNE 2020** Bachelor of Science in MATHEMATICS and COMPUTER SCIENCE  
**École Polytechnique**, Paris, France  
GPA: 4.15/4.0+, Summa Cum Laude  
Thesis: Sign Language Translation with Transformers (A+)  
Communications Officer for Sustainable Development, Midfielder for Women's Soccer Team,  
Flutist at Orchestre du Plateau de Saclay, Saxophonist at Fanfare, Soprano at Ensemble Vocal
- JUNE 2017** High School Diploma, Baccalauréat Général Option Internationale Américaine (OIB)  
**École Jeannine Manuel**, Paris, France  
Grade: 18.25/20, Mention Très Bien  
Série Scientifique, Spécialité Mathématiques (*Scientific Track, Mathematics Specialty*)  
Founding member of Green Club, Flutist at Chamber Orchestra, Saxophonist at Jazz Band, Singer at Chorale and Acapella
- JUNE 2016** Certificat d'Études Musicales ("Music Studies Certificate") in SOLFÈGE  
**Conservatoire Frédéric Chopin**, Paris, France  
Mention Très Bien  
Major: Flute & Solfège, Minor: Opera, Classical Ballet, Tap Dance

## PUBLICATIONS

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\* = equal contribution

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| Refereed<br>Papers | <p><a href="#">DO CONTEXT-AWARE TRANSLATION MODELS PAY THE RIGHT ATTENTION?</a><br/><b>K. Yin</b>, P. Fernandes, D. Pruthi, A. Chaudhary, A. Martins, G. Neubig<br/><i>59th Annual Meeting of the Association for Computational Linguistics (ACL)</i>. August 2021.</p> <p><b>[Best Theme Paper]</b> <a href="#">INCLUDING SIGNED LANGUAGES IN NATURAL LANGUAGE PROCESSING</a><br/><b>K. Yin</b>, A. Moryossef, J. Hochgesang, Y. Goldberg, M. Alikhani.<br/><i>59th Annual Meeting of the Association for Computational Linguistics (ACL)</i>. August 2021.</p> <p><a href="#">MEASURING AND INCREASING CONTEXT USAGE IN<br/>CONTEXT-AWARE MACHINE TRANSLATION</a><br/>P. Fernandes, <b>K. Yin</b>, G. Neubig, A. Martins<br/><i>59th Annual Meeting of the Association for Computational Linguistics (ACL)</i>. August 2021.</p> <p><a href="#">BETTER SIGN LANGUAGE TRANSLATION WITH STMC-TRANSFORMER</a><br/><b>K. Yin</b>, J. Read.<br/><i>28th International Conference on Computational Linguistics (COLING)</i>. December 2020.</p> <p><a href="#">ATTENTION IS ALL YOU SIGN: SIGN LANGUAGE TRANSLATION WITH TRANSFORMERS</a><br/><b>K. Yin</b>, J. Read.<br/><i>European Conference on Computer Vision (ECCV) Workshop on Sign Language Recognition,<br/>Translation and Production (SLRTP)</i>. August 2020.</p> |
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Preprints | [DATA AUGMENTATION FOR SIGN LANGUAGE GLOSS TRANSLATION](#)  
A. Moryossef\*, K. Yin\*, G. Neubig, Y. Goldberg  
August 2021.

## WORK EXPERIENCE

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

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

SEP. 2019 | Researcher at ILLUIN TECHNOLOGY, Paris  
- JAN. 2020 | *Question Answering*  
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 | *Artificial Intelligence*  
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.

## AWARDS & HONORS

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AUG. 2021 | Best Theme Paper at Association for Computational Linguistics (ACL).  
SEP. 2020 | Global Winner in Computer Science at the Global Undergraduate Awards.  
AUG. 2020 | CMU Research Fellowship for the academic year 2020/2021.  
JUN. 2015 | Jeannine Manuel Award for outstanding performance on the academic year 2014/2015.  
APR. 2015 | Finalist Concours Kangourou des Mathématiques (6th place out of 13011).  
JUN. 2014 | Jeannine Manuel Award for outstanding performance on the academic year 2013/2014.  
MAY. 2014 | EJM Debate Club Best Speaker Award for the academic year 2013/2014.  
APR. 2012 | Finalist Concours Kangourou des Mathématiques (8th place out of 53937).

## INTERVIEWS & TALKS

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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*  
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*

## SERVICE

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- *International Workshop on Automatic Translation for Signed and Spoken Languages*, Program Committee 2021
- *TransportiX Hackathon*, Mentor 2021
- *French Tournament of Young Mathematicians (TFJM<sup>2</sup>)*, Jury 2020

## SKILLS AND INTERESTS

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LANGUAGES: Japanese (Native); English (Fluent, TOEFL 117/120); French (Fluent); Mandarin (Intermediate); Spanish (Elementary)  
TECHNICAL SKILLS: Python (pytorch, tensorflow, scikit, numpy) , C++, C, Coq  
RESEARCH INTERESTS: Machine Learning, Natural Language Processing

*Last updated July 5, 2021*