

Kayo YIN

PERSONAL DATA

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ACADEMIC QUALIFICATIONS

- 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 in SOLFÈGE (Baccalauréat-level diploma of music)
Conservatoire Frédéric Chopin, Paris, France
Mention Très Bien
Major: Flute & Solfège, Minor: Opera, Classical Ballet, Tap Dance

PUBLICATIONS

* = equal contribution

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| Refereed
Papers | <p>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)</i>. August 2021.</p> <p>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)</i>. August 2021.</p> <p>[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)</i>. August 2021.</p> <p>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)</i>. August 2021.</p> <p>BETTER SIGN LANGUAGE TRANSLATION WITH STMC-TRANSFORMER
K. Yin, J. Read.
<i>28th International Conference on Computational Linguistics (COLING)</i>. December 2020.</p> |
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ATTENTION IS ALL YOU SIGN: SIGN LANGUAGE TRANSLATION WITH TRANSFORMERS

K. Yin, J. Read.

European Conference on Computer Vision (ECCV) Workshop on Sign Language Recognition, Translation and Production (SLRTP). August 2020.

WORK EXPERIENCE

JUN. 2020 - SEP. 2020	Research Intern at LA JAVANESS, Paris <i>Natural Language Processing</i> Developed a multi-label email classifier with meta-pseudo labeling.
JAN. 2020 - APR. 2020	Thesis Research Intern at LABORATOIRE INFORMATIQUE DE L'X, Paris <i>Natural Language Processing</i> Part of the Data Science and Mining (DaSciM) team, advised by Prof. Jesse Read. Researched Sign Language Translation with Transformers.
SEP. 2019 - JAN. 2020	Researcher at ILLUIN TECHNOLOGY, Paris <i>Question Answering</i> 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 - AUG. 2019	Research Intern at ILLUIN TECHNOLOGY, Paris <i>Artificial Intelligence</i> 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

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

MAR. 2021	Do Context-Aware Translation Models Pay the Right Attention? , <i>Unbabel</i>
NOV. 2020	Sign Language Translation with Transformers , <i>The Global Undergraduate Summit</i>
OCT. 2020	Sign Language Translation with Transformers , <i>Computer Vision Talks</i>
OCT. 2020	Bachelor of Science Alumni - Kayo at Carnegie Mellon University , <i>École Polytechnique</i>
SEP. 2020	Kayo Yin wins the 2020 Global Undergraduate Awards , <i>École Polytechnique</i>
MAY. 2020	Testimony: Kayo Yin, BX2020 Maths/Computer Science Student , <i>École Polytechnique</i>
DEC. 2019	Meet Kayo Yin, Bachelor Student , <i>Women in Science</i>
FEB. 2019	Meet our students - Kayo Yin , <i>École Polytechnique</i>
JUN. 2018	Kayo Yin, One-Woman Band , <i>A Lifetime of Science</i>

SERVICE

- *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

SKILLS AND INTERESTS

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

TECHNICAL SKILLS: Python (pytorch, tensorflow, scikit, numpy) , C++, C, Coq

RESEARCH INTERESTS: Machine Learning, Natural Language Processing

Last updated July 26, 2021