



Zied Elloumi

PhD Student in Computer Science, Data Science NLP

Interests

Artificial Intelligence, Data Science, NLP, Deep learning, Machine Learning, Data Processing, Speech Recognition, Machine Translation

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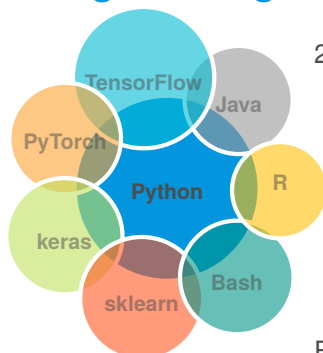
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Programming



Education

- 2016-Today **PhD student in Computer Science** [Grenoble Alpes University - France](#)
- 2012-2014 **Master's degree in Language Sciences, NLP** [Grenoble Alpes University - France](#)
- 2009-2012 **Bachelor's degree in Computer Science** [FSM - Tunisia](#)
- 2008-2009 **Baccalaureate degree in Computer Science** [F.Bourguiba High School- Tunisia](#)

Professional Experiences

- 2016-Today **PhD Student** [LIG & LNE - France](#)
Thesis between the Laboratory of Informatics of Grenoble (LIG) & the French National Laboratory for Metrology and Testing (LNE, like NIST in France) until January 2019.

Subject: Performance prediction of ASR systems

Supervisors: Laurent Besacier, Benjamin Lecouteux and Olivier Galibert

- 2014-2016 **R&D Engineer** [LIG](#)

- *TRIDAN*: Analysis and translation (from Arabic to French) of the output of an Optical Character Recognition system.
- *AIM-WEST*: Study and integration of Multi-word Expressions in two Statistical Automatic Translation Systems English-French and French-English.
- *KEHATH*: Two extensions of *Meteor* (MT evaluation metric) are proposed.

Feb-July
2014

- Master Research Internship** [LIDILEM & LIG Grenoble-France](#)
Subject: Integration of Multi-word Expressions for the improvement of a Statistical Machine Translation System.
Supervisors: Olivier Kraif and Laurent Besacier

- Internship** [LIDILEM Grenoble-France](#)
Task: Finalizing the treatment of the French-Russian and French-German parallel Corpora for the EMOLEX project.
Supervisor: Olivier Kraif

- Bachelor Research Internship** [FSM Monastir-Tunisia](#)
Subject: Study and implementation of variants of a word sense disambiguation algorithm
Supervisor: Mounir Zrigui

Personal Skills



May
2013

Feb-May
2012

Publications

OS Preference

Windows ★★★★★
GNU/Linux ★★★★★
MacOS ★★★★★

Languages

Arabic ★★★★★
French ★★★★★
English ★★★★★

Hobbies

Soccer
Swimming
Music
Video Games
Watching Movies

Elloumi, Z., Besacier, L., Galibert, O., Lecouteux, B. (2019, October)
Investigating Robustness of a Deep ASR Performance Prediction System. Submitted to IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Brighton-UK.

Elloumi, Z., Besacier, L., Galibert, O., Lecouteux, B. (2018, November)
Analyzing Learned Representations of a Deep ASR Performance Prediction Model. In EMNLP Workshop 2018, Brussels- Belgium.

Elloumi, Z., Besacier, L., Galibert, O., Kahn, J., Lecouteux, B. (2018, October).
Prédiction de performances des systèmes de reconnaissance automatique de la parole à l'aide de réseaux de neurones convolutifs. In TAL-59-2 Review.

Elloumi, Z., Besacier, L., Galibert, O., Kahn, J., Lecouteux, B. (2018, April).
ASR Performance Prediction on Unseen Broadcast Programs Using Convolutional Neural Networks. In IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Calgary-Canada.

Bouzidi, K., Elloumi, Z., Besacier, L., Lecouteux, B., Benzeghiba, M. F. (2017, June).
Traitement des Mots Hors Vocabulaire pour la Traduction Automatique de Document OCRisés en Arabe. In TALN 2017, Orléans-France.

Servan, C., Bérard, A., Elloumi, Z., Blanchon, H., Besacier, L. (2016, December).
Word2Vec vs DBnary: Augmenting METEOR using Vector Representations or Lexical Resources?. In COLING 2016, Osaka-Japan.

Elloumi, Z., Blanchon, H., Serasset, G., Besacier, L. (2015, November).
Meteor for multiple target languages using dbnary. In MT Summit 2015, Miami-United States.

Elloumi, Z., Besacier, L., Kraif, O. (2015, July).
Integrating Multi-word expressions in statistical machine translation. Multi-word Units In Machine Translation And Translation Technologies MUMTTT2015, Malaga-Spain.

References

- **Laurent Besacier:** Full professor at Grenoble Alpes University-France
E-mail: laurent.besacier@univ-grenoble-alpes.fr

- **Olivier Galibert:** Confirmed Engineer at LNE-France
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- **Benjamin Lecouteux:** Lecturer at Grenoble Alpes University-France
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- **Olivier Kraif:** Senior Lecturer at Grenoble Alpes University-France
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- **Mounir Zrigui:** Senior Lecturer at University of Monastir-Tunisia
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