

Hassan Ismail Fawaz, MSc

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🌐 <https://hfawaz.github.io>

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🌐 <https://scholar.google.com/citations?user=oUrGNaoAAAAJ>

Employment History

- 2017 – 2020 **PhD candidate.** IRIMAS, Université Haute Alsace, France.
- 2018 – 2019 **Lecturer.** ENSISA, Université Haute Alsace, France.
- 2017 – 2017 **Internship.** Data Services & Valorisation for Business, Orange Labs, France.
- 2016 – 2017 **Internship.** TICKET Lab, Université Antonine, Lebanon.
- 2016 – 2016 **Freelance.** Website development - www.mradmcc.com.
- 2015 – 2015 **Internship.** Web application development, Dar El Handasah, Lebanon.

Education

- 2017 – 2020 **Ph.D. Machine Learning, Université Haute Alsace, France**
Temporal data analysis with surgical data science application.
- 2016 – 2017 **M.Sc. Computer Science, Université de Bourgogne, France**
Second Class Honours. Databases & Artificial Intelligence.
- 2011 – 2017 **M.Sc. Software Engineering, Université Antonine, Lebanon**
Fourth Class Honours. Software & Telecommunications Engineering.

Research Publications

Journal Articles (accepted)

- 1 **Ismail Fawaz, H., Forestier, G., Weber, J., Idoumghar, L., & Muller, P.-A.** (2019a). [Deep learning for time series classification: a review](#). *Data Mining and Knowledge Discovery*. Code is available on <https://github.com/hfawaz/dl-4-tsc/>.
- 2 Forestier, G., Petitjean, F., Senin, P., Despinoy, F., Huauilmé, A., **Ismail Fawaz, H.**, ... Jannin, P. (2018). [Surgical motion analysis using discriminative interpretable patterns](#). *Artificial Intelligence in Medicine*, 91, 3–11.

Conference Proceedings

- 1 **Ismail Fawaz, H., Forestier, G., Weber, J., Idoumghar, L., & Muller, P.-A.** (2019b). [Deep Neural Network Ensembles for Time Series Classification](#). In *IEEE International Joint Conference on Neural Networks*.
- 2 **Ismail Fawaz, H., Forestier, G., Weber, J., Idoumghar, L., & Muller, P.-A.** (2019c). [Adversarial Attacks on Deep Neural Networks for Time Series Classification](#). In *IEEE International Joint Conference on Neural Networks*.
- 3 **Ismail Fawaz, H., Forestier, G., Weber, J., Idoumghar, L., & Muller, P.-A.** (2018a). [Evaluating surgical skills from kinematic data using convolutional neural networks](#). In *Medical Image Computing and Computer Assisted Intervention*. (Oral selection rate 4%). Code is available on <https://github.com/hfawaz/miccai18>.
- 4 **Ismail Fawaz, H., Forestier, G., Weber, J., Idoumghar, L., & Muller, P.-A.** (2018c). [Transfer learning for time series classification](#). In *IEEE International Conference On Big Data*. Selection rate 18.9%. Code is available on <https://github.com/hfawaz/bigdata18>.

Workshops




- 1 Ismail Fawaz, H., Forestier, G., Weber, J., Idoumghar, L., & Muller, P.-A. (2018b). [Data augmentation using synthetic data for time series classification with deep residual networks](#). Code is available on <https://github.com/hfawaz/aaltd18>.

Skills

Languages	English (TOEIC-955), French (B2), German (B1) & Arabic.
Development	Python, Java & Slurm Workload Manager.
Databases	MySQL, Neo4J, Protégé & Elasticsearch.
Web Dev	HTML, CSS, JavaScript, Apache Web Server & Tomcat Web Server.
Misc.	Academic research, teaching, \LaTeX typesetting & publishing.

Miscellaneous Experience

Grants

- 2018  **Mésocentre of Strasbourg.** [1.6 million GPU computing hours](#).
- 2017  **NVIDIA Corporation GPU Grant.** [Quadro P6000](#).
-  **Coursera Financial Aid.** [Deep learning speciality](#).




Visiting researcher

- 2018  **Wayne State University.** [Dr. Abhilash Pandya](#).




Certifications

- 2018  **Volunteering.** [IEEE International conference on Big Data](#).
-  **Participation.** [International Summer School on Deep Learning](#).
- 2017  **Participation.** Cisco CCNA 1, 2, 3 & 4.
- 2016  **Participation.** Lebanese Collegiate Programming Contest.
-  **Participation.** Advanced Programming & Algorithms Boot Camp.
- 2015  **Participation.** Lebanese Collegiate Programming Contest.


Awards

- 2018  **IEEE International Conference on Big Data.** [Student Travel Award](#).
- 2016  **First place.** Université Antonine Programming Competition.
- 2015  **Second place.** Université Antonine Programming Competition.

Talks & presentations

- 2019  **TsDays.** Apprentissage par transfert pour la classification de séries temporelles.
- 2018  **French society of computer science.** What to do with your PhD ?
-  **GDR-MADICS.** Interpretable evaluation of surgical skills.

Teaching


- 2018  **Deep Learning.** M.Sc. students in Computer Science - 20 hours.

Miscellaneous Experience (continued)

Conference committee

- 2019  **ORASIS'19.** [Journées francophones des jeunes chercheurs en vision par ordinateur.](#)
  **AE'19.** [The 14th Biennial International Conference on Artificial Evolution](#)

Reviewer

- 2019  **MICCAI'19.** [the 22nd International Conference on Medical Image Computing and Computer Assisted Intervention](#)
  **IEEE/CAA JAS.** [Journal of Automatica Sinica](#)