

# EDEN BELOUADAH, PH.D.

## PERSONAL INFORMATION

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ADDRESS: Paris, France  
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LINKS: [Scholar](#) | [GitHub](#) | [LinkedIn](#) | [Kaggle](#)

## EDUCATION

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**Ph.D. in Artificial Intelligence - Continual Learning** DEC. 2021  
IMT Atlantique, Brest & CEA-LIST, Paris-Saclay, France.

**Master's degree in Machine Learning - Ranked 2/40** SEP. 2018  
University of Paris-Saclay, Orsay, France.

**Master's degree in Artificial Intelligence - Ranked 1/40** JUNE 2017  
University of Sciences and Technology Houari Boumediene (USTHB), Algiers, Algeria.

**Bachelor's degree in Mathematics and Computer Science - Ranked 2/80** JUNE 2015  
University of Sciences and Technology Houari Boumediene (USTHB), Algiers, Algeria.

## PROFESSIONAL EXPERIENCE

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**Deep Learning Researcher | Datakalab, Paris, France** DEC. 2021 - PRESENT  
Tools: Continual Learning, Object Detection, LLMs, Jira, Git, Tensorflow, Pytorch, AWS, GCP, SLURM

## RESEARCH AND DEVELOPMENT INTERNSHIPS

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**Continual Deep Learning | CEA-LIST, Paris-Saclay, France** MAR. 2018 - SEP. 2018  
Tools: Convolutional Neural Networks, Support Vector Machines, Python  
Pytorch, Git, SpaCy, Numpy, Scikit-Learn, Latex

**Adaptation of "Bee Swarm Optimization" for continuous problems | LRIA, Algeria** JAN. 2017 - JUN. 2017  
Tools: Meta-heuristics, Continuous Optimization Problems, Java, GUI, Latex, Git.

**Fall detection of elderly people using Kinect sensor | LRIA, Algeria** JAN. 2015 - JUN. 2015  
Tools: C, C#, QtCreator, OpenCV, Microsoft SDK, Visual Studio, Matlab, Kinect

## THEORETICAL AND TECHNICAL SKILLS

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**Operating Systems :** Linux, Windows, MacOS

**Computer Vision :** Classification, object detection, segmentation, image generation

**Natural Language Processing:** Large Language Models, Parameter-Efficient Fine-Tuning, Named Entities Recognition, Sentiment Analysis, CRF Wapiti, Text Mining

**AI Models :** Multi-Layer Perceptrons, Convolutional Neural Networks, Generative Adversarial Networks, Hidden Markov Models, Transformers, Decision Trees, KNN, Support Vector Machines

**Languages :** Python, C, Git, Latex

**Frameworks :** PyTorch, Keras

## SELECTED PUBLICATIONS (SEE FULL LIST [HERE](#))

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Belouadah, E., Dapogny, A., Bailly, K., "MultIOD: Rehearsal-free Multihead Incremental Object Detector". Under review. Pre-print: <https://arxiv.org/abs/2309.05334>

Lomonaco, V., Lorenzo, P., Cossu, A., Carta, A., Graffieti, G., Hayes, T., Belouadah, E., Popescu, A. (long list). "Avalanche: an End-to-End Library for Continual Learning". Proceedings of the Computer Vision and Pattern Recognition workshops (W-CVPR 2021).

Belouadah, E., Popescu, A. and Kanellos, I., 2020. A Comprehensive Study of Class Incremental Learning Algorithms for Visual Tasks. Elsevier's Neural Networks, t. 135, pp. 38-54.

Belouadah, E. and Popescu, A., 2020. **ScaIL: Classifier Weights Scaling for Class Incremental Learning**. The IEEE Winter Conference on Applications of Computer Vision (WACV 2020). pp. 1266-1275.

Belouadah, E. and Popescu, A., 2019. **IL2M: Class incremental learning with dual memory**. Proceedings of the IEEE International Conference on Computer Vision (ICCV 2019). pp. 583-592.

Belouadah, E. and Popescu, A., 2018. **DeeSIL: Deep-Shallow Incremental Learning**. Proceedings of the European Conference on Computer Vision workshops (W-ECCV 2018).

## BOOKS

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Belouadah, E., Abbad, H. and Zebbouchi, A., 2017. **Learn to program in C language**. Translated from French to Arabic (original title: 'Apprenez à programmer en C', Mathieu Nebra). ([link](#)).

## SELECTED CERTIFICATIONS (SEE FULL LIST [HERE](#))

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Generative AI with Large Language Models (16 hours)	DeepLearning.AI	Ongoing
Deep Learning Specialization (122 hours) ( <a href="#">cert. 1</a>   <a href="#">cert. 2</a> )	DeepLearning.AI	Ongoing
Advanced Python: going further (5 hours) ( <a href="#">certificate</a> )	Udemy	DEC. 2022
Google Cloud Platform (GCP) Fundamentals for Beginners (4 hours) ( <a href="#">certificate</a> )	Udemy	NOV. 2022
Git and Gitlab: from beginner to professional (9 hours) ( <a href="#">certificate</a> )	Udemy	JUL. 2022
Deep Learning for Computer Vision with Tensorflow 2 (12 hours) ( <a href="#">certificate</a> )	Udemy	FEB. 2022
AWS Machine Learning Course (8 hours) ( <a href="#">certificate</a> )	Udacity	JUL. 2020

## TEACHING

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<b>Deep Learning</b> Students of 2nd year of Master's, Centrale Supélec Superior School (Paris-Saclay)	DEC. 2020 - FEB. 2021
<b>Operating Systems (Unix)</b> Students of 2nd year of Bachelor's, Paris-Sud university (Paris-Saclay).	SEP. 2020 - DEC. 2020

## SUPERVISING

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<b>Research internship on Continual Learning without memory</b> Habib Slim ( <a href="mailto:habib.slim@grenoble-inp.org">habib.slim@grenoble-inp.org</a> ), ENSIMAG, Grenoble, France.	MAR. 2021 - SEP. 2021
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## REVIEWING

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Elsevier's Neurocomputing Journal	AUG. 2022-PRESENT
CLIVISON Workshop, Computer Vision and Pattern Recognition (W-CVPR).	MAR. 2023
Winter Conference on Applications of Computer Vision (WACV)	AUG. 2022
Winter Conference on Applications of Computer Vision (WACV).	AUG. 2021
British Machine Vision Conference (BMVC 2021).	JUNE. 2021
British Machine Vision Conference (BMVC 2020).	AUG. 2020

## ACTIVITIES AND AWARDS

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Virtual Participation in the NASA Space apps challenge.	OCT. 2019
3rd position in iFood-2019 Kaggle challenge with CEA-LIST Team, France	JUN. 2019
1st position in LEGO Mindstorms EV3 DZBOT challenge, Free Forward Team, Algeria.	DEC. 2015
4th position in video games development challenge (AGC), Brother & Sister Team. Algeria.	MAY 2015
1st position in the National Judo Championship, Médéa, Algeria.	JUL. 2010

## LANGUAGES

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Arabic - French - English

## INTERESTS AND EXTRACURRICULAR ACTIVITIES

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Traveling - reading - playing video games - practicing sports

## SOFT SKILLS

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Autonomy, team spirit, motivation, dedication