

# ÁLVARO PERIS

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Machine learning engineer/data scientist. I hold a PhD in computer science, involving the use of deep learning for sequence-to-sequence modeling, human-computer interaction, system adaptation and multimodality. I published my research in international conferences and journals and open-sourced toolkits for NMT and visual captioning.

As a machine learning engineer, I worked in startup environments, developing and deploying machine learning systems, related to speech recognition, NLP and document analysis. I enjoy tackling challenging problems, analyzing and deploying effective solutions to them. I also like monitoring current systems, evaluating metrics and continuously improving them.

## PROFESSIONAL EXPERIENCE

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2019 – 2020	Sonia Labs. <i>Machine learning engineer.</i>
2015 – 2019	PRHLT Research Center, Universitat Politècnica de València. <i>Researcher (superior technician).</i>
2014 – 2015	PRHLT Research Center, Universitat Politècnica de València. <i>Student researcher.</i>

## EDUCATION

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2015 – 2019	PHD IN COMPUTER SCIENCE. <b>Universitat Politècnica de València.</b> EXCELLENT CUM LAUDE.
2014 – 2015	MSC in ARTIFICIAL INTELLIGENCE, PATTERN RECOGNITION AND DIGITAL IMAGING. <b>Universitat Politècnica de València.</b> GPA: 9.2/10.
2008 – 2014	BSC in COMPUTER ENGINEERING. <b>Universitat Politècnica de València.</b> GPA: 7.5/10.

## LANGUAGES

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SPANISH	Mother tongue.
CATALAN	Full professional competence.
ENGLISH	Advanced (Cambridge Advanced English Certificate).
GERMAN	Beginner.

## TECHNICAL SKILLS

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Programming languages	Python, Java, UNIX shell scripting, Matlab, Haskell.
Machine learning expertise	Deep learning, NLP, CV, seq2seq, document analysis.
Machine learning libraries	Tensorflow, PyTorch, Keras, Theano, Scikit-learn, Pandas.
Other	Git, CI/CD, Bazel, Docker and Kubernetes (limited expertise).

## OPEN SOURCE LIBRARIES

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<a href="#">NMT-Keras</a>	Fully-fledged neural machine translation toolkit.
<a href="#">Interactive Keras Captioning</a>	Interactive multimedia captioning.
<a href="#">ABiViRNet</a>	Neural video captioning.
<a href="#">sentence-selectioNN</a>	Neural sentence classifiers, for data selection.
<a href="#">VIBIKNet</a>	Visual question answering.
<a href="#">TMA</a>	Egocentric video captioning with extended context.

## SCIENTIFIC COMMITTEES

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Served as reviewer for several journals, including: Information Processing & Management, Machine Translation Journal, Language Resources and Evaluation.

## SCIENTIFIC PUBLICATIONS (SELECTION)

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- **Álvaro Peris**. [Interactivity, Adaptation and Multimodality in Neural Sequence-to-sequence Learning](#). PhD dissertation, 2019.
- **Álvaro Peris** and Francisco Casacuberta. [A Neural, Interactive-predictive System for Multimodal Sequence to Sequence Tasks](#). In *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL), System Demonstrations*, pp. 81–86, 2019.
- Miguel Domingo, Mercedes García-Martínez, **Álvaro Peris**, Alexandre Helle, Amando Estela, Laurent Bié, Francisco Casacuberta and Manuel Herranz. [Incremental Adaptation of NMT for Professional Post-editors: A User Study](#). In *Proceedings of Machine Translation Summit XVII Volume 2: Translator, Project and User Tracks*, pp. 219–227, 2019.
- **Álvaro Peris** and Francisco Casacuberta. [Online learning for effort reduction in interactive neural machine translation](#). In *Computer Speech & Language*, vol. 58, pp. 98–126, 2019.
- **Álvaro Peris** and Francisco Casacuberta. [Active Learning for Interactive Neural Machine Translation of Data Streams](#). In *Proceedings of the 22nd Conference on Computational Natural Language Learning (CoNLL)*, pp. 151–160, 2018.
- Marc Bolaños, **Álvaro Peris** and Francisco Casacuberta, Sergi Soler y Petia Radeva. [Egocentric Video Description based on Temporally-Linked Sequences](#). In *Journal of Visual Communication and Image Representation*, vol. 50 pp. 205-216, 2018.
- **Álvaro Peris** and Francisco Casacuberta. [NMT-Keras: a Very Flexible Toolkit with a Focus on Interactive NMT and Online Learning](#). *The Prague Bulletin of Mathematical Linguistics*, vol. 111 pp. 113-124, 2018.
- **Álvaro Peris**, Mara China-Ríos, and Francisco Casacuberta. [Neural Networks Classifier for Data Selection in Statistical Machine Translation](#). In *The Prague Bulletin of Mathematical Linguistics*, vol. 108, pp. 283–294, 2017.
- **Álvaro Peris**, Miguel Domingo and Francisco Casacuberta. [Interactive Neural Machine Translation](#). In *Computer Speech & Language*, vol. 45, pp. 201–220, 2017.
- **Álvaro Peris**, Marc Bolaños, Petia Radeva, and Francisco Casacuberta. [Video Description using Bidirectional Recurrent Neural Networks](#). In *Proceedings of the 25th ICANN*, vol 2, pp. 3–11. 2016.

→ [Full list of publications](#).