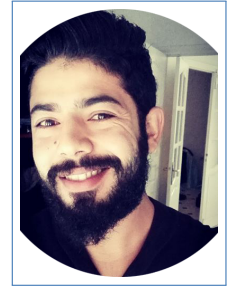# MohamedAli Souibgui

PhD Student

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Education and Certificates

Oct 2019–Now **PhD student in computer science**, *Autonomous university of Barcelona*, Computer Vision Center (CVC), Topic: *Recognition of handwritten ciphers.*

2018 **Certificate in Deep Learning Specialization**, *a 5-course specialization by deeplearning.ai*, on Coursera.

Sep 2015– Mar 2018 **Master's degree in computer science**, *Faculty of sciences*, Monastir, *Master's degree.*
Modeling of automatic reasoning systems

Sep 2012– Jun2015 **Bachelor's degree in computer sciences**, *Faculty of sciences*, Monastir, *Bachelor's degree.*

Experience

Oct 2019–Now **Pre-doctoral Researcher**, *Computer Vision Center (CVC)*, Barcelona, Computer vision within the document analysis group.

Internships

Mai 2019– Jun 2019 **Research visit**, *Computer vision center (CVC)*, Barcelona.

Feb 2017– Sep 2017 **Master thesis internship**, *MARS Laboratory*, Monastir.

Research projects

2019– Now **Decrypt project: Recognition of handwritten ciphers using computer vision and deep learning tools**, *Computer Vision Center*, Barcelona.

Research interests

○ Artificial intelligence

- Computer vision
- Machine learning / Deep learning
- Document analysis
- Natural language processing

Publications

Journals:
- **Souibgui, M. A.**, & Kessentini, Y. (2020). *DE-GAN: A conditional generative adversarial network for document enhancement*. IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI).
- Jemni, S. K.[*], **Souibgui, M. A.**[*], Kessentini, Y. &. Fornés, A (2021). *Enhance for Better Reading: A Multi-Task Adversarial Network for Handwritten Document Recovery*. Pattern Recognition. 123.

Conferences:
- **Souibgui, M. A.**[*], Biten, A. F.[*], Dey, S.[*], Fornés, A., Kessentini, Y., Gomez, L., Karatzas, D. & Lladós, J (2022). *One-shot Compositional Data Generation for Low Resource Handwritten Text Recognition*. In Winter Conference on Applications of Computer Vision (WACV) (pp. 935-943).
- Chen, J., **Souibgui, M. A.**, Fornés, A., & Megyesi, B. (2020, May). *A Web-based Interactive Transcription Tool for Encrypted Manuscripts*. In Proceedings of the 3rd International Conference on Historical Cryptology HistoCrypt 2020 (No. 171, pp. 52-59).
- **Souibgui, M. A.**, Fornés, A., Kessentini, Y., & Tudor, C. (2020). *A Few-shot Learning Approach for Historical Ciphered Manuscript Recognition*. In 2020 25th International Conference on Pattern Recognition (ICPR). IEEE.
- **Souibgui, M. A.**, Kessentini, Y., & Fornés, A. *A Conditional GAN Based Approach for Distorted Camera Captured Documents Recovery*. In 2020 4th Mediterranean Conference on Pattern Recognition and Artificial Intelligence (MedPRAI). Springer.
- Chen, J., **Souibgui, M. A.**, Fornés, A. & Megyesi, B. (2021, August). *Unsupervised Alphabet Matching in Historical Encrypted Manuscript Images*. In the 4th International Conference on Historical Cryptology HistoCrypt (pp. 34-37).

Workshops:
- Torras, P., **Souibgui, M. A.**, Chen, J., & Fornés, A. (2021, September). *A Transcription Is All You Need: Learning to Align Through Attention*. In International Conference on Document Analysis and Recognition (GREC Workshop) (pp. 141-146). Springer, Cham.

Papers Under Revision

Journals:
- **Souibgui, M. A.**, Fornés, A., Kessentini, Y., & Megyesi, B. (2021). *Few Shots Is All You Need: A Progressive Few Shot Learning Approach for Low Resource Handwriting Recognition.* Pattern Recognition Letters (Under Revision).

Conferences:
- **Souibgui, M. A.**[*], Biswas, S.[*], Jemni, S. K.[*], Kessentini, Y., Fornés, A., Lladós, J, & Pal, U. (2022). *DocEnTr: An End-to-End Document Enhancement Transformer.* In 2022 26th International Conference on Pattern Recognition (ICPR) (Under Revision).

Languages

English	Excellent writing, Excellent speaking
French	Good writing, good speaking
Arabic	Native language

Computer skills

- Python (Pytorch ,Keras, Tensorflow, OpenCV, . . .)
- Matlab, C, C++, C#, Java . . .
- Javascript, HTML, CSS (Bootstrap), . . .

Awards

- **Best student paper award:** The prize was given by the ICPR 2020 organizing committee for the paper entitled: $A\ Few-shot\ Learning\ Approach\ for\ Historical\ Ciphered\ Manuscript\ Recognition$

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[*] Equal contribution.