

MohamedAli Souibgui

Pre-Doc Researcher

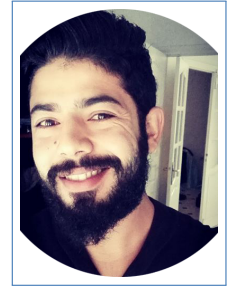
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📄 dali92002.github.io/



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–Jun 2015 **Bachelor's degree in computer sciences**, *Faculty of sciences*, Monastir, *Bachelor's degree*.

Work Experience

- Oct 2019–Now **Pre-doctoral Researcher**, *Computer Vision Center (CVC)*, Barcelona, Spain.
Computer vision within the document analysis group
- Oct 2018–Aug 2019 **Computer Vision Researcher**, *Digital Research Center of Sfax*, Sfax, Tunisia.
Computer vision within the deep vision group
- Mai 2019–Jun 2019 **Research Intern**, *Computer vision center (CVC)*, Barcelona, Spain.
Computer vision within the document analysis group
- Jan 2019–Apr 2019 **Intern**, *Satoripop*, Sousah, Tunisia.
Computer Vision and NLP within the Research and Development Team
- Feb 2017–Sep 2017 **Intern**, *MARS Laboratory*, Monastir, Tunisia.
Internship related to the master thesis

Areas of Expertise

- Deep Learning (ANN, CNN, GANs, Transformers, RNN, ...)
- Computer Vision (Object Detection, Classification, OCR, Image Processing and Enhancement, Image Generation, ...)

Computer skills

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

Research projects

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

Within the DECRYPT project, we release resources and tools with open access to facilitate research in historical ciphers, allowing collection, analysis and decryption of historical cipher texts images.

Publications

- 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) (Accepted).
 - **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). *Un-supervised Alphabet Matching in Historical Encrypted Manuscript Images*. In the 4th International Conference on Historical Cryptology HistoCrypt (pp. 34-37).

* Equal contribution.

- 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.
 - **Souibgui, M. A.**, Fornés, A., Kessentini, Y., & Megyesi, B. (2022). *Few Shots Are All You Need: A Progressive Few Shot Learning Approach for Low Resource Handwritten Text Recognition*. Pattern Recognition Letters.

- 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.

Publications Under Revision

- Conferences:
- **Souibgui, M. A.*** , Biswas, S.* , Mafla, A.* , Biten, A. F.* , Fornés, A., Kessentini, Y., Lladós, J, Gomez, L, & Karatzas, D. (2022). *Text-DIAE: Degradation Invariant Autoencoders for Text Recognition and Document Enhancement*. In 2023 AAAI Conference on Artificial Intelligence (AAAI)(Under Revision).

Research interests

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

Languages

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

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 Ciphred Manuscript Recognition*