

# Mohamed Amine KERKOURI

PHD STUDENT · COMPUTER VISION

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## Education

### University of Orleans

PHD COMPUTER SCIENCE

Orleans, France

02/2020 - present

- Advisor: Rachid Harba, Pr., Professor, H.D.R, Polytech Orléans, France.
- Advisor: Aladine CHETOUANI, Ph.D., Assitant Professor, H.D.R, Polytech Orléans, France.

### Institut National Des Télécommunications et des Technologies de l'Information et de la Communication (INTTIC)

ENGINEER INFORMATION AND COMMUNICATION TECHNOLOGIES

Oran, Algeria

09/2014 - 07/2019

- Advisor: Sid Ahmed FEZZA, Ph.D., Assitant Professor, H.D.R, INTTIC, Oran, Algeria.

## Professional Experience

- 09/2020-present **Graduate Teaching Assistant**, Polytech Orleans, France
- 02/2019-05/2019 **Big Data Intern**, VEON Djezzy, Algeria
- 06/2018-08/2018 **Data Science Intern**, VEON Djezzy, Algeria

## Skills

**Programming**, Python, Java, JavaScript, HTML, CSS, PHP, MySQL, PostgreSQL,  
**Big Data & Data analytics**, Extract, transform, load (ETL), Apache Hadoop, Apache NiFi,  
Apache Kafka, Apache Ignite.  
Descriptive statistics, Inferential Statistics, Probability, Exploratory Data Analysis (EDA),  
Data visualization, OpenCV, PyTorch, TensorFlow.

## Research Experience

### CURRENT INTERESTS

Deep Neural Networks, CNN/RNN/Transformer, Auxiliary learning, Self-Supervised Learning, Domain Adaptation, Active learning, Bayesian Neural Networks, Variational Auto-encoders, Generative Adversarial networks, Visual Attention, Image perception. .

### RESEARCH PROJECTS

#### University of Orleans

Rue de Blois

SUPERVISORS: DR. ALADINE CHETOUANI

2020, 2023

- **Project TicArt**: Regional Project in partnership with the C2RMF research center and 10 regional museums. It aims to study the visual and perceptual behavior of visitors according to multiple socio-economic and art expertise criteria. The project aims to provide the museums with a global analysis of the cognitive behavior of visitors.

#### University of Orleans & University of Tours

SUPERVISORS: DR. ALADINE CHETOUANI

2022, ...

- **Project ARTISM**: Project with the Partnership of "Inserm" Institut for Health and Medical Research for the study of visual perceptual and cognitive behavior of autistic patients related to visual art.

## Publications

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### PUBLISHED

- M. A. Kerkouri**, M. Tliba, A. Chetouani and R. Harba, "Salypath: A Deep-Based Architecture For Visual Attention Prediction," 2021 IEEE International Conference on Image Processing (ICIP), 2021, pp. 1464-1468, doi: 10.1109/ICIP42928.2021.9506295.
- Kerkouri Mohamed Amine**, Tliba Marouane, Chetouani Aladine, Sayeh Mohamed, "SalyPath360: Saliency and scanpath prediction framework for omnidirectional images" in Proc. IS&T Int'l. Symp. on Electronic Imaging: Human Vision and Electronic Imaging, 2022, pp 168-1 - 168-7, <https://doi.org/10.2352/EI.2022.34.11.HVEI-168>
- Kerkouri Mohamed A.**, Chetouani Aladine, "A simple and efficient deep scanpath prediction" in Proc. IS&T Int'l. Symp. on Electronic Imaging: Human Vision and Electronic Imaging, 2022, pp 188-1 - 188-7, <https://doi.org/10.2352/EI.2022.34.11.HVEI-188>
- M. Tliba et **M.A.Kerkouri** et al., "SATSa: A Multi-Level Self-Attention Based Architecture for Visual Saliency Prediction," in IEEE Access, vol. 10, pp. 20701-20713, 2022, DOI: 10.1109/ACCESS.2022.3152189.
- M. Tliba\*, **M. A. Kerkouri**\*, A. Chetouani and A. Bruno. "Self Supervised Scanpath Prediction Framework for Painting Images," 2022 IEEE Computer Vision and Pattern Recognition (CVPR-W), 2022, 10.1109/CVPRW56347.2022.00160.
- M. A. Kerkouri**, M. Tliba, A. Chetouani and A. Bruno. "A domain adaptive deep learning solution for scanpath prediction of paintings," 2022 Content-Based Multimedia Indexing (CBMI), 2022, 10.1145/3549555.3549597.
- M. Tliba, A. Sekhri **M. A. Kerkouri** and A. Chetouani. "Deep-based quality assessment of medical images through domain adaptation." 2022 International Conference Image Processing (ICIP 2022).

### IN REVIEW

- Kerkouri, Mohamed Amine**, et al. "An Inter-observer consistent deep adversarial training for visual scanpath prediction." ICASSP 2023.

## Outreach & Professional Development

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### PEER REVIEW

- Reviewer:** Computer Vision Pattern Recognition CVPR-W (NTIRE 2022), IEEE Transactions on Image Processing, IEEE ICIP 2022 / ICIP 2023
- Guest Editor:** Journal of Imaging: Special Issue (HBxSCES) 2022.

### ORGANIZATIONS

- Program Committee member** : "HBxSCES" workshop ICIAP 2021 1<sup>st</sup> Workshop.
- Local Organizers Committee, Webmaster:** ACM 20<sup>th</sup> International "Conference on Content-Based Multimedia Indexing" 2023 (CBMI 2023).
- Organizers Committee, Webmaster:** ACM IMX, "Visual Attention in Multimedia Experience" workshop. 2023
- Grand Challenge Organizer:** IEEE ICIP 2023, Grand Challenge. "Point Cloud Visual Quality Assessment Grand Challenge" (PCVQA 2023).

### SERVICE AND OUTREACH

- KERKOURI, M.A** 2022. Domain adaptation for Visual Quality assessment in medical imaging. Meeting for Visual Quality Expert Group 2022.
- KERKOURI, M.A** et al. 2022. Self-Supervised Scanpath Prediction Framework for Painting Images. 10<sup>th</sup> EPIC workshop CVPR 2022.

## Mentoring & supervision

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2021 **BA Ibou Lay**, Ms. intern Student, Université de Aix-Marseille

2020 **Zhe Wang**, Ms. intern Student, IMT Lille

Orleans,  
France  
Orleans,  
France