

Mohamed Amine KERKOURI

PHD STUDENT · COMPUTER SCIENCE

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Education

University of Orleans

PHD COMPUTER SCIENCE

- Advisor: Aladine CHETOUANI, Ph.D., Assitant Professor, Polytech Orléans, France.

Orleans, France

02/2020 - present

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

ENGINEER INFORMATION AND COMMUNICATION TECHNOLOGIES

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

Oran, Algeria

09/2014 - 07/2019

Professional Experience

- 09/2020-present **Graduate Teaching Assistant**, Polytech Orleans, France
- 2020-Present **Phd Student**, Laboratoire PRISME, France
- 02/2019-05/2019 **Big Data Intern**, VEON Djezzy, Algeria
- 07/2018-08/2018 **Data Science Intern**, VEON Djezzy, Algeria

Skills

Programming, Python, Java, JavaScript, HTML, CSS, PHP, Wordpress, MySQL, PostgreSQL, Pytorch, Tensorflow, Scikit Learn, Numpy, Matplotlib, Seaborn, Scipy, OpenCV.
Machine Learning, Deep Neural Networks, CNN/RNN, Self-Supervised Learning, Domain Adaptation, Bayesian Neural Networks, Variational Auto-encoders, Generative Adversarial networks.
Big Data & Data Analysis, Descriptive statistics, Inferential Statistics, Probability, Exploratory Data Analysis (EDA), Extract, transform, load (ETL), Apache Hadoop, Apache NiFi, Apache Kafka, Apache Ignit.

Publications

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>

ACCEPTED

M. A. Kerkouri* , M. Tliba*, A. Chetouani and A. Bruno. "Self Supervised Scanpath Prediction Framework for Painting Images," 2022 IEEE Computer Vision and Pattern Recognition (CVPR-W), 2022.

IN REVIEW

M. A. Kerkouri* , M. Tliba*, A. Chetouani and A. Bruno. "SCANPNT : A LIGHTWEIGHT EFFICIENT VISUAL SCANPATH PREDICTION METHOD," 2022 IEEE International Conference on Image Processing (ICIP), 2022.

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.

IN PREP

M. A. Kerkouri , M. Tliba, A. Chetouani and A. Bruno. "DAGAN-P: A domain adaptive scanpath prediction GAN for paintings,"

M. A. Kerkouri , M. Tliba, A. Chetouani and A. Bruno. "A self supervised Bayesian network for painting scanpath prediction,"

M. A. Kerkouri , M. Tliba, A. Chetouani. "ScanTrans : A Transformer Scanpath classifier ,"

Presentations

CONTRIBUTED PRESENTATIONS

KERKOURI, M.A. 2020. Scanpath prediction and application for Art. Departmental seminar: Polytech Orleans, Orleans, France.

KERKOURI, M.A. 2021. Basics of CNNs for computer vision. Departmental seminar: Polytech Orleans, Orleans, France.

KERKOURI, M.A., Chetouani, A. . 2021. TicArt : Painting Digitization and behavioural perception studies. International RTR-Diams: Polytech Orleans, Orleans, France.

Teaching Experience

Spring 2022	MathInfo II : Object-Oriented C++ for computation , Teaching Assistant	<i>Polytech, Orleans, France</i>
Fall 2022	MathInfo I : Introduction to programming using C++ , Teaching Assistant	<i>Polytech, Orleans, France</i>
Spring 2021	MathInfo II : Object-Oriented C++ for computation , Teaching Assistant	<i>Polytech, Orleans, France</i>
Fall 2021	MathInfo I : Introduction to programming using C++ , Teaching Assistant	<i>Polytech, Orleans, France</i>

Mentoring

2021	BA Ibou Lay , Ms Student, Université de Aix-Marseille	<i>Orleans, France</i>
2020	Zhe Wang , Ms Student, IMT Lille	<i>Orleans, France</i>

Research Experience _____

INTERESTS

- Deep Learning, Self-supervised Learning, Bayesian Neural Networks, Domain adaptation, Visual Attention, Image perception.

PROJECTS

University of Orleans

Rue de Blois

SUPERVISORS: DR. ALADINE CHETOUANI

2020, 2023

- Projects: TicArt : Regional Project with the Partnership of C2RMF research center and 10 museums for painting digitization and perceptual behaviour study.

University of Orleans & University of Tours

SUPERVISORS: DR. ALADINE CHETOUANI

2022, ...

- Projects: ARTISM : Project with the Partnership of Inserm Institut for Health and Medical Research for the study of perceptual behaviour of autistic patients using painting images.

Outreach & Professional Development _____

SERVICE AND OUTREACH

2021 Salon-Forum des professionnels culture patrimoine tourisme, Presenter

Blois, France

DEVELOPMENT

Program Committee member HBAXSCES workshop ICIAP 2021 1st Workshop.

PEER REVIEW

Reviewer : Computer Vision Pattern Recognition CVPR-W NTIRE 2022

Reviewer : ICIP 2022

Guest Editor : Journal of Imaging : Special Issue (HBAXSCES) 2022