

Joyce KUOH MOUKOURI

ENGINEER, DATA SCIENTIST,
BILINGUAL ENGLISH/FRENCH

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PROFESSIONAL SUMMARY

Multidisciplinary research engineer with seven years of experience and a specialization in Data Science, a passionate interest in economics, eager to apply my skills in computer science and mathematics to contribute to social justice and impactful causes.

WORK EXPERIENCE

Data and statistical research analyst, Association NioFar **Oct 2023 - currently**
Statistical Analysis of the Toponymy of the City of Toulon for the decolonization of public spaces

- Data Collection from the FANTOIR Database
- Definition of the taxonomy for street name categories
- Creation and maintenance of an SQL database
- Automatic classification of roads and place names
- Development of a Flask application to visualize the distribution of street names in Toulon

Data Scientist, Data Analyst, Openclassrooms **Nov. 2022 - Oct. 2023**
Data processing, statistical analysis and machine learning
Completion of seven professional data science projects for the validation of the M2 of Data Science

- Data Processing: Data collection and cleaning (Python, SQL), querying databases in SQL and APIs, analysis and imputation of missing values
- Statistical Analysis (Python, R): Descriptive and inferential statistics, dimensionality reduction: principal component analysis, linear discriminant analysis
- Machine Learning: Supervised and unsupervised training (scikit-learn, TensorFlow) Communication: presentation, study report, data visualization tools (Seaborn, Matplotlib) Collaboration: Version control with Git/GitHub, MLops with MLFlow
- Types of Data: econometric, social, textual, images, time series, and physical measurements

Author, Scientific consultant, Arte **Sept. 2022 - July 2023**

- Part of the multidisciplinary collective of ARTE L'INCUBATEUR, along with documentarists, one historian, one physicist, and economists to reflect on the world and create documented and research-based stories about the future of life on planet earth.
- Literature review on the economic impact of climate change
- Literature review on the geopolitics of AI
- Collaboration with team members to create research-based stories
- Result : Two series are currently under development.

Management of artistic projects, writing, and research in social sciences **Jan. 2020 - Sept. 2022**

- Writing the film 'OURY,' a 15-minute fiction. Subject: Refugee rights, Unaccompanied minors care in France
- Directing the film 'SORORITÉ,' a 15-minute fiction. Subject: Labour migration laws and the struggle of the hotel Ibis chambermaids. (Pre-production. Leading a film crew of over 30 collaborators. Post-production.)
- Creating the photographic project 'FANTÔMES,' exhibited at the Palais de Tokyo as part of the exhibition 'JUSQU'ICI TOUT VA BIEN' (SO FAR, SO GOOD).
- Producing an episode of the 'Kiffe ta Race' podcast for BINGE AUDIO, with Rokhaya Diallo

UK Valves Mechanical , Edvance**June 2018 - Jan. 2020**

- Responsible for the qualification of valves' design for the nuclear power plant project Hinkley Point C
- Review of calculation notes and technical drawings
- Managing the relations with the suppliers

Logistics Engineer, Alten**Nov. 2017 - June 2018**

- Procurement of spare parts for French nuclear fleet
- Managing the relations with supplier and clients

Research Engineer (V.I.E), EDF Energy, Manchester University**Aug. 2016 - Sept. 2017**

- Study of the damage-related ageing of the core of a standard Advanced Gas-cooled Reactor (AGR).
- Development of a numerical tool able to describe the influence of a cracked moderator brick containing the fuel, on the surrounding components.
- Scientific writing and communication

EDUCATION & CERTIFICATIONS

Master 2 Data Scientist, 2023

Certification RNCP37431 Niveau 7, Openclassrooms & CentraleSupélec (Paris-Saclay)

TOEIC, 2016

Certification ETS, 980/990

Engineering degree (Msc), 2016

Major : Assessment of human-structure-society interactions

Arts et Métiers Sciences et Technologies, Paris

Research Master's Degree, Sciences, Technologies and health (MRes), 2016

Major : Mechanical engineering, Materials and Industrial processes

Arts et Métiers Sciences et Technologies, joint with University Paris-Saclay, Paris

Bachelor of Sciences et Technologies (Bsc), 2012

Major : Mechanical Engineering, Mathematics, and Computer Science for Scientific Computing

Sorbonne University, Paris

PUBLICATIONS & HONORS

Master's Thesis: "Modelling and prediction of the deformation during co-sintering of a high temperature dual membrane fuel cell", D. Masson, J. Kuoh Moukouri, A. Chesnaud, A. Thorel ECS Conference on Electrochemical Energy Conversion and Storage with SOFC-XIV, 2015

Nomination for the Women in Industry Awards 2019, Article de Usine Nouvelle

Finalist in the pitch competition at the CÔTÉ COURT 2021 Festival

Selection of the film SORORITÉ at the Clermont-Ferrand International Short Film Festival 2021