

Kamel Adouane | Researcher

Geneva – Switzerland

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🐦 @KamelAdouane • 🔄 Mastertype

5yrs+ Computational Science

skills

- computing science **java**
- artificial intelligence
- data mapping
- big data
- database modeling
- graph theory

working experience

achievements.....

HES-SO, Hepia, Geneva

researcher

Switzerland

2019–ongoing

- member of the inPACT Institute, as a scientific collaborator in order to support the development of the digital integration of Building Information Modelling (BIM);
- member of the MIC group, dedicated to develop Innovative Methods for the Construction industry in a Building Information Modelling (BIM) context;
- member of the technical committee of the *Impulse Subsurface* project, dedicated to predict and use digital underground objects in the context of a Building Information Modeling (BIM) and Geographical Information System (GIS) convergence;

National University of Singapore

researcher

Singapore

2017–2019

- quantitative tool computation for big data migration between two international standards;
- data exchange related research projects with ongoing publications;
- realised upon the usage of open-source based java code aimed at interpreting source data instances;
- innovation and novelty brought by proposing new data exchange solutions;
- analysed smart data schemas compliance via unit testing and came with solutions so as to facilitate source data instance towards target data instance conversion;
- built-up series of unit testing framework to allow the checking of code consistencies;
- coding realizing according to best practices standards recognized in java;
- java based: unit testing, integration, innovation in an environment which involves series of servers among a pre-defined architecture;
- completed a full data migration between two big data standards in the field in a context of smart cities;
- computed a series of mathematical functions integrated in a kernel based environment so as to provide solving solutions;
- optimising code execution by providing necessities parallelization (multi-thread);

Masdar Institute**Abu Dhabi, UAE***researcher*

2014–2016

- computed a prototype based from computational fluid dynamics to infer local's meteorologic temperature profiles;
- computed a Java based client interacting in an environment of Java based servers to maximise a metric of interest
- computed a the validation of a fortran based code on a high performance computer (500 distributed processors)
- MIT workshops, School of Architecture and Planning, to compare prototypes with most advanced computational fluid dynamics technologies

Societe Generale**Paris, France***market risk analyst*

2013–2013

- active in aggregating transactional sensitivities analysis for exotics on credit and equities;
- value-at-risk estimations and analysis;
- s-value-at-risk estimations and analysis;
- large scope considered, based on the Euro-zone;

Axa**London, UK***financial market investment*

2012–2013

- stress tests scenarios assessment;
- buy to hold investment in credit default swaps iTraxx tranches;
- investment in listed equity options;
- tail hedging;
- active in monitoring the internal relation between the market risk team and the investment team;

Ernst and young**Paris, France***financial auditor*

2011–2011

- provided financial advisory and auditing;
- conducted external auditing of financial statements for middle capitalization firms;
- involved in various business line activities and multi sectoral exposition

miscellaneous.....

MIT**Cambridge, MA, USA***School of Architecture and Planning*

2015-02

visiting researcher

educational background**Sciences Po Paris, School of Management and Innovation****Paris, France***Master's Degree in Finance and Strategy, option Finance*

2008–2011

Ranked 4th in QS World University rankings in Politics and International Studies

Centrale Supélec**Paris, France***General Engineering Degree and Master's Degree in General Engineering*

2006–2009

Ranked 2nd in QS Top French University in Computing Science

additional languages**French:** Native