

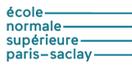


# Firas Jarboui

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**Behavioral data science enthusiast**  
**Currently pursuing a PhD in Inverse Reinforcement Learning**

## EDUCATION



### PHD STUDENT

École normale supérieure Paris-Saclay

2018-2021

- Subject: Inverse reinforcement learning in non Markovian/offline settings



### MASTER 2: DATA SCIENCE

École polytechnique

2017-2018

- Courses and projects specializing in Data Science.
- Optimal decision making



### MATHEMATICAL ENGINEERING DEGREES

École Nationale Supérieure de Techniques Avancées & École Nationale d'Ingénieurs de Tunis

2014-2018

- Major : Mathematical simulation and engineering.
- Specialization courses : Probabilities, Statistics, Optimization & command ...

## WORK EXPERIENCE



### ANEO, UNITÉ DE RECHERCHE BIG DATA/HPC, *Research Scientist*

2017-2021

- Modeling MOOC users' behaviors from log data
- Applying Inverse reinforcement learning to marketing/HR use cases



### DASSAULT SYSTÈME, WW MARKETING AND OPERATION, *Data analyst*

2016 (5 months)

- Establishing a Marketing Performance Forecasting Model
- Determination of key performance indicators to be measured



### HARVARD SEAS - CHALMERS, *Visiting Scholar (Projet de recherche)*

2016 (4 months)

- Strategy optimization in a multi agent environment in a reinforcement learning setting
- stochastic search of strategies in non continuous setting

## RESEARCH PAPERS

On Going	-	Unsupervised Multi-task Inverse Reinforcement Learning
Under Review	2021	Offline Inverse Reinforcement Learning
Under Review	2021	A Generalised Inverse Reinforcement Learning framework
Under Review	2021	Quickest change detection for multi-task problems under unknown parameters
Under Review	2020	Unsupervised Neural HMMs with a Continuous latent state space
ICPR	2020	Trajectory representation learning for Multi-Task NMRDPs planning
E-MOOCs	2019	Markov Decision Process for MOOC users behavioral inference
ECML	2017	Users Behavioural Inference with MDPs and Active Learning
HAL	2017	Multi-view Sequential Games: The Helper-Agent Problem

## SKILLS



Mother tongue  
Trilingual  
Trilingual  
Elementary

L1  
TCF C2  
TOIEC 925



**python** : Work experience at Aneo & Research projects  
**R** : Work experience at 3DS & Courses projects  
**Octave** : Internship research project  
**Matlab** : Courses projects