## Simo Alami Chehboune

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EDUCATION		
2019-2022	ECOLE POLYTECHNIQUE Ph.D. in Mathematics/Artificial Intelligence Supervisor: Pr. Jesse Read Subject: A distributional Perspective on Inverse Reinforcement Learning and Meta-Learning	Paris, France
2018-2019	<b>CENTRALESUPÉLEC</b> <i>MSc. in Artificial Intelligence</i> Relevant coursework: Machine Learning, Deep Learning (Part of ENS MVA Program), Optim Artificial Intelligence, Statistics, Natural Language Processing, Big Data Algorithms, Network Analytics, Reinforcement Learning (MVA), Graphical Models (MVA), Computer Vision	
2016-2018	UNIVERSITE PIERRE ET MARIE CURIE (PARIS VI) Bachelor in Pure Mathematics and Physics Passed the second year as an independent candidate (distance education)	Paris, France
2013-2017	EDHEC Business School MSc. in Corporate Finance and Banking (Grande Ecole Program)	Nice, France
2011-2013	<b>IPESUP, CLASSES PRÉPARATOIRES</b> Dedicated to the preparation of the competitive entrance examinations for top ranked Bus	Paris, France siness Schools
2008-2011	LYCÉE LYAUTEY Ca French Baccalauréat, Scientific section, obtained with high honours	sablanca, Morocco
PROFESSIONAL EX	XPERIENCE	
2020-2023 (3 years)	<ul> <li>ECOLE POLYTECHNIQUE</li> <li><i>Teaching Assistant</i></li> <li><i>Master Level:</i></li> <li>Advanced Topics in AI, Advanced Machine Learning and Autonomous Agents</li> </ul>	Paris, France
Nov 21-May 23 (6 months)	ACCENTA Visiting Researcher (gap year) Subject: Inverse Reinforcement Learning methods for carbon emission minimization	Paris, France

• Using Inverse RL methods for scaling existing RL algorithms using multi-agent systems

- Investigating Inverse RL methods for multi-objective optimization
- Using Inverse RL to guarantee transferability and robustness of existing algorithms

Nov 19-Nov 23 (4 years) Apr 19-Aug 19 (5 months)	<ul> <li>LIX (POLYTECHNIQUE COMPUTER SCIENCE LAB) AND IRT SYSTEMX</li> <li>Ph.D. Student <ul> <li>Subject: A distributional Perspective on Inverse Reinforcement Learning and Meta</li> <li>Topic includes: Machine/Deep Learning, Reinforcement Learning, Metric Learn</li> </ul> </li> </ul>	0
	INRIA, MAGRIT TEAM Research Intern, Supervised by Pr.Marie-Odile Berger and Pr.Gilles Simon	Nancy, France

- Subject: Deep Learning Methods for 6DoF Pose Estimation
- Implemented a pixel-wise depth augmented version of Mask-RCNN
- Created a COCO like adaptation of Linemod Dataset for depth and mask inference *Report and detailed results available on my website above*

# Mar 16-Aug 16Société Générale CIB(6 months)Front Office IT Commando, Tactical Tools Development

- Developed Front Office Tactical Tools for Commodities Traders (VBA, SQL, Python)
- Developed an interface allowing a more efficient calculation of Stress Test Shocks for commodities
- Created and improved risk reports (Stress Test, VAR, SVAR, Sensitivities, Greeks) sent to ECB
- Monitored and implemented Financial Regulation (FED, Volcker).

## Aug 15-Feb 16 **Societe Generale CIB**

(6 months)

## Trader Assistant, Exotic and Hybrid Derivatives

- Produced the daily P&L of structured products activity
- Priced Equity and Hybrid exotic products: Autocalls, Digitals, Dual Range Accruals, Varswaps
- Produced daily risk analysis reports: Spot, Volatility, Rates, Forex, Stress Tests, Greeks

## LANGUAGES & COMPUTER SKILLS

- Fluent in French, Arabic and English
- Python, Tensorflow, Pytorch, SQL, R, Matlab, VBA, MapReduce, Hadoop, Spark, Bloomberg

## PUBLICATIONS

- Transferable Deep Metric Learning for Clustering. Mohamed ALAMI, Rim KADDAH, , Jesse READ. <u>IDA</u>
   <u>2023</u>
- *CAMEO: Curiosity Augmented Metropolis for exploratory optimal policies.* Mohamed ALAMI, Fernando LLORENTE, Rim KADDAH, Luca MARTINO, Jesse READ. <u>EUSIPCO 2022</u>
- *Conv-NILM-Net, a causal and multi-appliance model for energy source separation,* Mohamed ALAMI, Jérémie DECOCK, Rim KADDAH, Jesse READ, <u>ECML 2022</u>, MLBEM Workshop

#### Paris, France