## Jordan LEKEUFACK SOPZE

Oakland, CA

E-mail: jordan.lekeufack@berkeley.edu Website: https://jordylek.github.io/

## Work Experience

<ul> <li>The Voleon Group, Research Intern.</li> <li>Worked on a linear regression model to learn forecasts realization</li> <li>Improved the forecasts predictions by 5-10% in terms of correlation.</li> </ul>	May 2024 – Aug. 2024 Berkeley, CA.
<ul> <li>Pinterest Inc, Pinterest Lab Intern.</li> <li>Trained a reward model to predict the total engagement of users on the homepage. Improved previous models' precision by 10%.</li> <li>Used the model to predict the result of past online A/B tests. Obtained a correlation of 0.9 with actual results of the tests.</li> <li>Building a recommender system using reinforcement learning based on the reward model.</li> </ul>	May 2023 – Dec. 2023 <i>New York, US.</i>
<ul> <li>Bloomberg LP, Quant Research Intern</li> <li>Applied multi-agent reinforcement learning methods to calibrate derivative pricing models.</li> <li>Proposed a new Markovian path-dependent volatility model that jointly calibrates to the S&amp;P 500 and the VIX. – supervised by Prof. Julien Guyon.</li> </ul>	Jun. 2022 – Aug. 2022 <i>New York, US</i> .
<ul> <li>Bloomberg LP, Quant Research Intern.</li> <li>➢ Developed a method to estimate the VIX with the SPX with a R2 of 0.9.</li> <li>➢ Implemented a gradient descent method to jointly calibrate the S&amp;P 500 and the VIX with a path-dependent method.</li> </ul>	Apr. 2020 – Dec. 2020 <i>New York, US</i> .
<ul> <li>BNP Paribas, Data Lab, Data Scientist Intern.</li> <li>Worked on a tool to predict the influence of news on the returns using deep learning models.</li> </ul>	Nov. 2019 – Apr. 2020 <i>London, UK.</i>
<ul> <li>BNP Paribas, AMM Team, Quant Trader Intern.</li> <li>Research Internship Award by Ecole Polytechnique.</li> <li>Implemented a robust clustering method for stocks listed on the SXXP.</li> </ul>	Apr. 2019 – Oct. 2019 <i>London, UK.</i>
Crédit Agricole, <i>Data Scientist Intern.</i> Lycée Joliot Curie, <i>Teaching Assistant</i> .	June 2018 – Aug. 2018 Montrouge, France.
Lycee jonot curre, reaching Assistant.	Sept. 2016 – Apr. 2017 Nanterre, France.
Education	
<ul> <li>Education</li> <li>UC Berkeley, Ph.D. in Statistics.</li> <li>Working on applying conformal predictions and other confidence sets to decision making. Supervised by Michael I. Jordan.</li> <li>Coursework: High-Dimensional Non-Asymptotic Statistics (Martin Wainwright), Convex Optimization (Laurent El Ghaoui), Reinforcement Learning (Sergey Levine), Advanced Topics in Machine Learning and Economics (Michael I. Jordan), Causal Inference, Natural Language Processing (Dan Klein)</li> <li>Teaching experience: TA for STAT 134 (Concepts of Probability) in Fall 2021, STAT 201B (Introduction to</li> </ul>	Nanterre, France. Sept. 2020 – Ongoing

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Publications	
<b>Lekeufack, J. et al.,</b> Conformal Decision Theory: Safe Autonomous Decisions from Imperfect Predictions, <i>ICRA 2024</i>	2024
Guyon, J. and Lekeufack, J. Volatility is (Mostly) Path-Dependant, Quantitative Finance	2023
Talks	
SIAM Conference on Financial Mathematics and Engineering	June 2023
Presenting the paper "Volatility is (mostly) path-dependent" at the mini symposium on volatility organized by Prof. Julien Guyon.	Philadelphia, US.
Consortium for Data Analytics in Risk Seminar	March 2023
<ul> <li>Presenting the paper "Volatility is (Mostly) Path-Dependant".</li> </ul>	Berkeley, US.
Bloomberg Quant Seminar Series	July 2020
<ul> <li>Lightning Talk: Estimating the VIX from the S&amp;P 500 Path.</li> </ul>	(Online)
Leadership Activities	
X-Afrique	Apr. 2017 – Apr. 2019
Vice-President of the student association which promotes African culture in Polytechnique and discusses Africa's	Paris, France.
issues.	
Travelled across Africa to inspire and help youth to apply to further Education in France.	
Organising a forum on African entrepreneurship matching investors with young start-ups. 1000+ attendants in 2019.	
Managing a team of 25+ members.	
Awards	
Bloomberg Quant Finance Fellow.	Spring 2022
Finalist for the Two-Sigma Diversity Fellowship.	2022
Research Internship Award, Ecole Polytechnique.	2020
Skills & Interests	
Languages French: native speaker. English: experienced user.	
Commentary Advanced in Puthon (Numpy, Pandas, Scikit Loarn, Koras, PyTorsh)	

Languages	Therein hadre speaker English experienced user
Computer	<ul> <li>Advanced in Python (Numpy, Pandas, Scikit-Learn, Keras, PyTorch).</li> </ul>
Science	• Intermediate in R, knowledge in C++.
Hobbies	Basketball, Strong interest in Africa culture and development issues, Dance.