## Graduate student of engineering school specializing in Applied Mathematics at EISTI, Cergy

TUMASHKINA Diana 95014 Cergy +33 7 69 00 67 95

EDUCATION	2018-2020 • Master in des Sciences du Traitemer Model Simulation and Cali Difference Methods. Stoch 2017 – 2019 • Master i Tomsk State University, Ru Probability Theory. Queues 2013 – 2017 • Bachelor Tomsk State University, Ru Mathematical Statistics. E Integration. 2012 – 2013 • Practical	Quantitative Finance at de l'Information (EISTI) ibration. Option Pricing N astic Processes. Advance <b>n Applied Mathematic</b> ussia, Tomsk ing Theory. Mathematica <b>in Applied Mathemat</b> ussia, Tomsk (équivalent l conometrics. Markov pro	and Risk Management • École Internationale , Cergy, France lodels. Monte-Carlo. Markov Chains. PDE. Finite d Numerical Methods. s and Computer Science • National Research I Modeling. Simulation. cs and Computer Science • National Research BAC +4) cesses. Object Oriented Programming. Stochastic
SKILLS AND KNOWLEDGES	<ul> <li>VBA (MS Word/E</li> <li>Python (Anacond</li> <li>Matlab, Simulink</li> <li>SQL in ORACLE, S</li> <li>C++/C# (Environn</li> <li>LaTeX</li> <li>Bloomberg termin</li> <li>Français (A2-B1),</li> </ul>	xcel) la, Spyder, JupyterLab) — J , R <b>(RStudio), Mathcad</b> , S QLite, MS Access nent Visual Studio) nal Anglais (B2-C1), Russe (n	pandas, numpy, sklearn, tkinter tatistica, Scilab ative)
PROJECTS	<ul> <li>Matlab Projet (2019) : Chaînes de Markov en finance <ul> <li>Monte-Carlo Markov Chain utilisation (MCMC)</li> <li>Dynamic Programming utilisation</li> </ul> </li> <li>Matlab Projet (2019) : Calibration of the financial model based on market data (S&amp;P 500) <ul> <li>Analysis of implied volatility</li> <li>Manipulation of the Black-Scholes Model.</li> </ul> </li> <li>Mathematical research (2015-2019) : Investigation of Semi-synchronous Point Process of the Second Order <ul> <li>Mathematical research in areas of applied probabilistic analysis and queueing theory</li> <li>New formulas were derived for the estimation of the process states and parameters by observing the dataset of events.</li> <li>Result: 12 scientific papers (3 are indexed in Scopus, 1 in Web of Science)</li> </ul> </li> </ul>		
PROFESSIONAL EXPERIENCES	2017 – 2019 • <b>Computer Science, Information Technology, Project Management teacher</b> • College of Commerce and Services, Russia, Tomsk		
CERTIFICATIONS	<ul> <li>2019 • Data Analyst in Python • Dataquest.io</li> <li>2018 • Bloomberg Market Concepts • Bloomberg LP</li> </ul>		
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