Mariana Martínez

Curriculum Vitae

Coursework

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⊕ mtzmarianaa

Clickable links are underlined

	Education
2021-present	Courant Institute, NYU, MS in Mathematics, New York, NY
2016-2020	Instituto Tecnológico Autónomo de México (ITAM) , Bachelors in Applied Mathematics, Mexico City, Mexico
	Projects
Dec 2021	An Application of Gaussian Processes and SURF Method for Mexican History of Painting, GP, SURF, MATLAB
August 2021	Short Text Classification For Customer Service Bot, Gibbs sampler, SVM, NLP, Python
May 2021	Wavelet analysis and Artificial Intelligence for Mexican Artists' Style recognition, DTCWT, HMM, DWT, FFT, SVM, Autoencoders, Random Forests, MATLAB, Python, R
Dec 2020	Hypothesis in Simulation, MCMC, Numerical Integration, R
Dec 2020	Genetic Algorithm for The Travelling Salesman Problem, Genetic algorithms, Python
Dec 2020	Numerical Polygon Optimization, Interior points method, MATLAB
Dec 2019	Simplex and Dual Simplex Method Implementation, MATLAB
May 2018	Joukowsky transformation for F1 car's wings, MATLAB
	Experience
Dec 2020 - present	Data Scientist/Engineer, IV.AI
Fall 2019	TA Programming with R, Recitation Leader
Spring 2020	TA Programming with R, Recitation Leader
	Technical Skills
Programming	MATLAB, R, Python, Java, SQL, Tensorflow, PyTorch, MongoDB, Cassandra, Git/Github, Observable, GGMap, Plotly, Postman
Languages	Spanish (native), English (bilingual proficiency), German (bilingual proficiency), French (limited working proficiency)

Grad Courses Computational Statistics (Courant), Complex Analysis 1-term (Courant), Linear Algebra 1-term (Courant), Numerical Optimization (ITAM), Applied Numerical Analysis (ITAM), Simulation (ITAM), Research Operations Methods (ITAM), Linear Programming (ITAM), Stochastic Processes (ITAM)

Undergrad Calc 1-3, Linear Algebra 1-3, Math Analysis 1-2, Probability 1-2, Applied Statistics 1-2, Courses Dynamical Systems 1-2, Modern Algebra (SUT)

Other courses

Online Big Data Specialization (2021, Coursera), Understanding the Brain: The Neurobiology of courses Everyday Life (2020, Coursera), Deep Learning with Tensorflow (2020, EdX), Python Data Science (2020, EdX), From Poverty to Prosperity: Understanding Economic Development (2020, EdX), High - Dimensional Data Analysis (2020, EdX)

In-person Advanced German (2021, Goethe Institut), German (2019, BWS Berlin), Economics Courses Week/Wirtschaftswoche (2016, Wirtschaftswoche)