

Colin (Kejin) Wan

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Education	New York University , New York <i>Master of Science in Data Science,</i> University of Toronto , Toronto <i>Bachelor of Science, Math Specialist and Statistical Major</i>	Expected: Sept. 2020 - Jun. 2022 Major GPA: 3.85/4.00
Technical Skills	Programming: Python, R, SAS, SQL, MATLAB, Octave Machine Learning Library (Python): PyTorch, TensorFlow, Scikit-Learn	
Awards	Dean's List Scholar: 2015-2016, 2017-2018	
Publication	SynC: A Unified Framework for Generating Synthetic Population with Gaussian Copula. - Kejin (Colin) Wan, Zheng Li, Yue Zhao, PPAI 2020	
Experiences	Teaching Assistant , University of Toronto	Sept. 2018 - May. 2020
	<ul style="list-style-type: none">- Taught MAT137 (Calculus), STA257 (Probability)- Conducted tutorials to help students review current topic.- Hosted office-hours to clarify questions from students.	
	Data Scientist , PricewaterhouseCoopers	Sept. 2018 - Aug. 2019
	<ul style="list-style-type: none">- Discussed with clients to rationalize and specify their needs.- Designed and implemented segmentation models and service recommender systems.- Developed statistical models for synthetic population.	
	Quantitative Research Analyst , Universal Portfolio	May. 2018 - Dec. 2018
Research/ Projects	<ul style="list-style-type: none">- Researched the field of digital currency and sought potential profiting opportunities.- Modeled and predicted the future trend by quantitatively analysing available data.- Back tested the current investment strategy and optimized current portfolio.	
	Peer Mentor , University of Toronto	Jan. 2018 - May. 2018
	<ul style="list-style-type: none">- Hosted group sessions for mentees and introduce them to various career pathways.- Led mentees to official events and introduced the resources school provided.	
	High Frequency and Algorithmic Trading University of Toronto, Department of Statistics	Sept. 2019 - May. 2020
	<ul style="list-style-type: none">- Analyzed high frequency trading algorithms and model strategy outcomes.- Visualized trading algorithms and contrast results of different strategies.- Implemented stochastic models and simulated trading process for each algorithm.	
	Synthetic Population via Copulas Based Dependency Model (Published) PricewaterhouseCoopers	Sept. 2018 - Feb. 2020
	<ul style="list-style-type: none">- Proposed a copulas based algorithm to capture conditional dependencies among features.- Compiled a sample population for downtown Toronto to verify the model.- Accompanying paper is accepted at the workshop of AAAI 2020.	
	Local Feature interpretability of Black-Box Model PricewaterhouseCoopers	Sept. 2018 - Present
	<ul style="list-style-type: none">- Proposed an Info-GAN based algorithm to understand the black-box model of any classifier.- Designed a GAN based architecture to capture latent feature of a given classifier.- Tested the results of proposed architecture on existing complex models. [0.25cm]	
Competition/ Volunteer/ Leadership Experiences	• Datafest Department of Statistics, University of Toronto	May. 2020
	• Datafest - 2nd Place Department of Statistics, University of Toronto	May. 2019
	• Financial Data Case Competition RiskLab, University of Toronto	Mar. 2018
	• Project Assistant RiskLab, University of Toronto	Jan. 2018 - May. 2018
	• Rotman Portfolio Management Competitions Rotman School	Oct. 2017
	• Statistic Lecturer Talent Education, Toronto	Mar. 2017 - Aug. 2017
Interests	• Vice President UTFUN, University of Toronto	Sept. 2015 - Aug. 2018
	<i>Exercising, Philosophy, Hiking, Travelling.</i>	