

Richard Cornelius Suwandi

CONTACT INFORMATION	2001 Longxiang Boulevard, Longgang District, Shenzhen, Guangdong Province, China 518172	richardsuwandi@link.cuhk.edu.cn richardcsuwandi.github.io
EDUCATION	The Chinese University of Hong Kong, Shenzhen (CUHK-Shenzhen) Ph.D. in Computer and Information Engineering • Supervisor: Prof. Feng Yin, Prof. Tsung-Hui Chang (IEEE Fellow) • Research: Probabilistic machine learning, decision-making under uncertainty, generative AI The Chinese University of Hong Kong, Shenzhen (CUHK-Shenzhen) B.Sc. in Statistics (First-class honours)	Sep 2023 - Present Sep 2019 - May 2023
HONORS AND AWARDS	School of Science and Engineering Postgraduate Studentship, CUHK-Shenzhen Undergraduate Research Award, CUHK-Shenzhen School of Data Science Dean's List Award, CUHK-Shenzhen Guangdong Government Outstanding International Student Scholarship Full Tuition and Accommodation Scholarship, CUHK-Shenzhen	2023 2022, 2023 2020, 2021, 2022, 2023 2020, 2021 2019
RESEARCH EXPERIENCE	Bayesian Learning for Signal Processing (BLSP) Group , CUHK-Shenzhen <i>Undergraduate Research Assistant</i> Assisted Prof. Feng Yin on a project involving Gaussian processes (GP) for time series analysis: <ul style="list-style-type: none">Designed a novel grid spectral mixture kernel for GP with multidimensional inputDeveloped two distributed learning algorithms for GP regression based on the successive convex approximation (SCA) and alternating direction method of multipliers (ADMM) algorithmPresented a paper accepted at the 25th International Conference on Information Fusion (FUSION) 2022 Shenzhen Research Institute of Big Data (SRIBD) , Shenzhen <i>Undergraduate Research Assistant</i> Assisted Prof. Tsung-Hui Chang on a project focused on federated unsupervised learning: <ul style="list-style-type: none">Investigated federated matrix factorization (MF) for data clustering and recommender systemsCombined the alternating minimization and model averaging (MA) techniques to solve the federated MF problemCo-authored a paper accepted at the 46th IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) 2021	Jun 2021 - May 2023 Jun 2020 - May 2021
PUBLICATIONS	R. C. Suwandi , Z. Lin, Y. Sun, Z. Wang, L. Cheng and F. Yin, "Gaussian Process Regression with Grid Spectral Mixture Kernel: Distributed Learning for Multidimensional Data," 25th International Conference on Information Fusion (FUSION), 2022, pp. 1-8. [Paper], [Code] S. Wang, R. C. Suwandi and T. -H. Chang, "Demystifying Model Averaging for Communication-Efficient Federated Matrix Factorization," 46th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2021, pp. 3680-3684. [Paper], [Poster]	
TEACHING EXPERIENCE	<i>Teaching Assistant</i> , MAT2040: Linear Algebra, CUHK-Shenzhen <i>Teaching Assistant</i> , MAT2040: Linear Algebra, CUHK-Shenzhen	Spring 2024 Fall 2023