

Richard Cornelius Suwandi

CONTACT INFORMATION	2001 Longxiang Boulevard, Longgang District, Shenzhen, Guangdong Province, China 518172	richardsuwandi@link.cuhk.edu.cn richardcsuwandi.github.io
RESEARCH INTERESTS	Resource-efficient decision-making with Bayesian optimization, probabilistic machine learning, AI to accelerate scientific discovery and engineering design	
EDUCATION	The Chinese University of Hong Kong, Shenzhen (CUHK-Shenzhen) Ph.D. in Computer and Information Engineering <ul style="list-style-type: none">Supervisor: Prof. Feng Yin, Prof. Tsung-Hui Chang (IEEE Fellow)	Sep 2023 - Present
	The Chinese University of Hong Kong, Shenzhen (CUHK-Shenzhen) B.Sc. in Statistics (First-class honours)	Sep 2019 - May 2023
HONORS AND AWARDS	Shenzhen Universiade International Scholarship Foundation	2024
	School of Science and Engineering Postgraduate Studentship, CUHK-Shenzhen	2023
	Undergraduate Research Award, CUHK-Shenzhen	2022, 2023
	School of Data Science Dean's List Award, CUHK-Shenzhen	2020, 2021, 2022, 2023
	Guangdong Government Outstanding International Student Scholarship	2020, 2021
	Full Tuition and Accommodation Scholarship, CUHK-Shenzhen	2019
RESEARCH EXPERIENCE	Bayesian Learning for Signal Processing (BLSP) Group <i>Undergraduate Research Assistant</i> Assisted Prof. Feng Yin on a project involving Gaussian process (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 algorithms for kernel learning in GP regressionPresented a paper accepted at FUSION 2022	Jun 2021 - May 2023
	Shenzhen Research Institute of Big Data (SRIBD) <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 for data clustering and recommender systemsCo-authored a paper and a poster accepted at IEEE ICASSP 2021	Jun 2020 - May 2021
PUBLICATIONS	<u>R. C. Suwandi</u> , 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], [Slides] S. Wang, <u>R. C. Suwandi</u> 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

PROFESSIONAL SERVICES AND AFFILIATIONS	<i>Reviewer</i> , IEEE Transactions on Signal Processing	2024 - Present
	<i>Member</i> , IEEE Young Professionals	2024 - Present
	<i>Member</i> , IEEE Signal Processing Society	2024 - Present
	<i>Graduate Student Member</i> , IEEE	2024 - Present
	<i>Member</i> , IEEE Student Branch, CUHK-Shenzhen	2023 - Present