

# Richard Cornelius Suwandi

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CONTACT INFORMATION	2001 Longxiang Boulevard, Longgang District, Shenzhen, Guangdong Province, China 518172	<a href="mailto:richardsuwandi@link.cuhk.edu.cn">richardsuwandi@link.cuhk.edu.cn</a> <a href="https://richardcsuwandi.github.io">richardcsuwandi.github.io</a>
RESEARCH INTERESTS	Sequential decision-making, probabilistic machine learning, AI4Science	
EDUCATION	<b>The Chinese University of Hong Kong, Shenzhen (CUHK-Shenzhen)</b> Ph.D. in Computer and Information Engineering <ul style="list-style-type: none"><li>Supervisor: Prof. Feng Yin, Prof. Tsung-Hui Chang (IEEE Fellow)</li></ul>	Sep 2023 - Present
	<b>The Chinese University of Hong Kong, Shenzhen (CUHK-Shenzhen)</b> B.Sc. in Statistics (First-class honours)	Sep 2019 - May 2023
HONORS AND AWARDS	IEEE Signal Processing Society Scholarship	2024
	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	<b>Bayesian Learning for Signal Processing (BLSP) Group</b> <i>Undergraduate Research Assistant</i> Assisted <a href="#">Prof. Feng Yin</a> on a project involving Gaussian process (GP) for time series analysis: <ul style="list-style-type: none"><li>Designed a novel grid spectral mixture kernel for GP with multidimensional input</li><li>Developed two distributed algorithms for kernel learning in GP regression</li><li>Presented a paper accepted at <a href="#">FUSION 2022</a></li></ul>	Jun 2021 - May 2023
	<b>Shenzhen Research Institute of Big Data (SRIBD)</b> <i>Undergraduate Research Assistant</i> Assisted <a href="#">Prof. Tsung-Hui Chang</a> on a project focused on federated unsupervised learning: <ul style="list-style-type: none"><li>Investigated federated matrix factorization for data clustering and recommender systems</li><li>Co-authored a paper and a poster accepted at <a href="#">IEEE ICASSP 2021</a></li></ul>	Jun 2020 - May 2021
PUBLICATIONS	<u>R. C. Suwandi</u> , Z. Lin, F. Yin, Z. Wang, S. Theodoridis, "Sparsity-Aware Distributed Learning for Gaussian Processes with Linear Multiple Kernel," submitted to IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2024. [ <a href="#">Paper</a> ], [ <a href="#">Code</a> ]  <u>R. C. Suwandi</u> , Z. Lin, Y. Sun, Z. Wang, L. Cheng, 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. [ <a href="#">Paper</a> ], [ <a href="#">Code</a> ], [ <a href="#">Slides</a> ]  S. Wang, <u>R. C. Suwandi</u> , 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. [ <a href="#">Paper</a> ], [ <a href="#">Poster</a> ]	

TEACHING EXPERIENCE	<i>Teaching Assistant, CIE6007: Machine Learning, CUHK-Shenzhen</i>	Fall 2024
	<i>Teaching Assistant, MAT2040: Linear Algebra, CUHK-Shenzhen</i>	Spring 2024
	<i>Teaching Assistant, MAT2040: Linear Algebra, CUHK-Shenzhen</i>	Fall 2023
PROFESSIONAL SERVICES AND AFFILIATIONS	<i>Reviewer, International Conference on Learning Representations</i>	2024 - Present
	<i>Reviewer, IEEE Transactions on Signal Processing</i>	2024 - Present
	<i>Member, IEEE Young Professionals</i>	2024 - Present
	<i>Member, IEEE Signal Processing Society</i>	2024 - Present
	<i>Graduate Student Member, IEEE</i>	2024 - Present
	<i>Member, IEEE Student Branch, CUHK-Shenzhen</i>	2023 - Present