

# Richard Cornelius Suwandi

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CONTACT INFORMATION	2001 Longxiang Boulevard Longgang, Shenzhen	<a href="mailto:richardsuwandi@link.cuhk.edu.cn">richardsuwandi@link.cuhk.edu.cn</a> <a href="https://github.com/richardcsuwandi">richardcsuwandi.github.io</a>
EDUCATION	<b>The Chinese University of Hong Kong, Shenzhen (CUHK-Shenzhen)</b> Ph.D. in Computer and Information Engineering • Supervisor: Prof. Feng Yin, Prof. Tsung-Hui Chang (IEEE Fellow) <b>The Chinese University of Hong Kong, Shenzhen (CUHK-Shenzhen)</b> 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	<b>Bayesian Learning for Signal Processing (BLSP) Group</b> , CUHK-Shenzhen <i>Undergraduate research assistant</i> Assisted <a href="#">Prof. Feng Yin</a> with Gaussian process for time series analysis project: <ul style="list-style-type: none"><li>Designed a novel grid spectral mixture kernel for Gaussian process with multidimensional input</li><li>Developed two distributed learning algorithms for Gaussian process regression based on the successive convex approximation (SCA) and alternating direction method of multipliers (ADMM) algorithm</li><li>Presented a paper that was accepted to the 25th International Conference on Information Fusion (FUSION) 2022</li></ul> <b>Shenzhen Research Institute of Big Data (SRIBD)</b> , Shenzhen <i>Undergraduate research assistant</i> Assisted <a href="#">Prof. Tsung-Hui Chang</a> with federated unsupervised learning project: <ul style="list-style-type: none"><li>Investigated the federated matrix factorization (MF) problem for data clustering and recommender systems</li><li>Combined the alternating minimization and model averaging (MA) technique to solve the federated MF problem</li><li>Co-authored a paper that was accepted to the 46th IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) 2021</li></ul>	Jun 2021 - May 2023  Jun 2020 - May 2021
PUBLICATIONS	<u><a href="#">R. C. Suwandi</a></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. [ <a href="#">Paper</a> ], [ <a href="#">Code</a> ]  S. Wang, <u><a href="#">R. C. Suwandi</a></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. [ <a href="#">Paper</a> ], [ <a href="#">Poster</a> ]	
TEACHING EXPERIENCE	<i>Teaching Assistant</i> , MAT2040: Linear Algebra, CUHK-Shenzhen <i>Teaching Assistant</i> , MAT2040: Linear Algebra, CUHK-Shenzhen	Spring 2024 Fall 2023