


# Richard Cornelius Suwandi

✉ richardsuwandi@link.cuhk.edu.cn    richardcsuwandi.github.io    richardcsuwandi    richardcsuwandi

## Research Interests

---

Sample-efficient black-box optimization, probabilistic modeling, open-ended discovery for science & engineering

## Education

---

**The Chinese University of Hong Kong, Shenzhen (CUHK-Shenzhen)** *Sep 2023 – Present*  
*PhD in Computer and Information Engineering*

- **Supervisors:** Prof. Feng Yin & Prof. Tsung-Hui Chang (IEEE Fellow)

**The Chinese University of Hong Kong, Shenzhen (CUHK-Shenzhen)** *Sep 2019 – May 2023*  
*BSc in Statistics (Data Science Stream), First-Class Honours*


## Research Experience

---


**Dria** *Sep 2025 – Present*  
*Research Intern*

- Working on evolutionary coding agents for algorithm discovery and codebase optimization

**Bayesian Learning for Signal Processing (BLSP) Group** *Jun 2021 – May 2023*  
*Undergraduate Research Assistant (Supervised by Prof. Feng Yin)*



- Designed a novel grid spectral mixture kernel for GP with multidimensional input
- Developed two distributed algorithms for kernel learning in GP regression
- Presented a paper accepted at [FUSION 2022](#) 



**Shenzhen Research Institute of Big Data (SRIBD)** *Jun 2021 – May 2023*  
*Undergraduate Research Assistant (Supervised by Prof. Tsung-Hui Chang)*




- Investigated federated matrix factorization for data clustering and recommender systems
- Co-authored a paper and a poster accepted at [IEEE ICASSP 2021](#) 

## Publications

---

[R. C. Suwandi](#), F. Yin, J. Wang, R. Li, T.-H. Chang, S. Theodoridis, “**Adaptive Kernel Design for Bayesian Optimization Is a Piece of CAKE with LLMs**,” *39th Conference on Neural Information Processing Systems (NeurIPS)*, 2025. [Paper](#)  [Code](#) 

[R. C. Suwandi](#), Z. Lin, F. Yin, Z. Wang, S. Theodoridis, “**Sparsity-Aware Distributed Learning for Gaussian Processes with Linear Multiple Kernel**,” *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 2025. [Paper](#)  [Code](#) 

[R. C. Suwandi](#), 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. [Paper](#)  [Code](#)  [Slides](#) 

S. Wang, [R. C. Suwandi](#), T.-H. Chang, “**Demystifying Model Averaging for Communication-Efficient Federated Matrix Factorization**,” *46th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2021. [Paper](#)  [Poster](#) 

## Honors & Awards

---

|   |            |
|---|------------|
| 2nd Prize Award, Doctoral Research and AI Conference, CUHK-Shenzhen       | 2025       |
| IEEE Signal Processing Society Scholarship                                | 2024, 2025 |
| 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                   |
| Bronze Medal, Asia International Mathematical Olympiad (AIMO)      | 2018                   |

## Teaching Experience

---

|   |             |
|---|-------------|
| <i>Teaching Assistant</i> , CIE6007 Machine Learning, CUHK-Shenzhen | Fall 2025   |
| <i>Teaching Assistant</i> , MAT2040 Linear Algebra, CUHK-Shenzhen   | Spring 2025 |
| <i>Teaching Assistant</i> , CIE6007 Machine Learning, CUHK-Shenzhen | Fall 2024   |
| <i>Teaching Assistant</i> , MAT2040 Linear Algebra, CUHK-Shenzhen   | Spring 2024 |
| <i>Teaching Assistant</i> , MAT2040 Linear Algebra, CUHK-Shenzhen   | Fall 2023   |

## Organizational Experience

---

|  |                |
|--|----------------|
| <i>Co-organizer</i> , AI4Science Community, alphaXiv | 2025 – Present |
| <i>Student Ambassador</i> , CUHK-Shenzhen            | 2024 – Present |
| <i>Graduate Student Member</i> , IEEE                | 2024 – Present |
| <i>Member</i> , IEEE Young Professionals             | 2024 – Present |
| <i>Member</i> , IEEE Signal Processing Society       | 2024 – Present |
| <i>Member</i> , IEEE Student Branch, CUHK-Shenzhen   | 2023 – Present |

## Services

---

|   |
|---|
| <i>Journal Reviewer</i> , IEEE Transactions on Signal Processing (TSP)  |
| <i>Journal Reviewer</i> , IEEE Transactions on Neural Networks and Learning Systems (TNNLS)                     |
| <i>Conference Reviewer</i> , Neural Information Processing Systems (NeurIPS)                                    |
| <i>Conference Reviewer</i> , International Conference on Machine Learning (ICML)                                |
| <i>Conference Reviewer</i> , International Conference on Learning Representations (ICLR)                        |
| <i>Conference Reviewer</i> , IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) |