

**Jordy Evan Sulaiman**  
**Research Assistant Professor**  
**Department of Health Technology & Informatics,**  
**The Hong Kong Polytechnic University (PolyU)**  
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## Academic Qualifications

**09/2017 – 09/2022** **Ph. D. in Chemical and Biomolecular Engineering**  
**M. Phil. in Chemical & Biomolecular Engineering**  
*The Hong Kong University of Science & Technology (HKUST)*  
GPA: 4.15/4.3 (Ph.D.) & 4.3/4.3 (M.Phil.), Supervisor: Prof. Henry Lam,  
Best postgraduate award for research excellence

**09/2015 – 01/2016** **Exchange Program in Chemical Engineering**  
*University of California, Los Angeles (UCLA)*  
GPA: 3.8/4.0, Dean's honors list

**09/2013 – 09/2017** **B. Eng. in Chemical & Biomolecular Engineering**  
*The Hong Kong University of Science & Technology (HKUST)*  
GPA: 4.1/4.3, First Class Honors & Ranked 1<sup>st</sup> in the department,  
Academic achievement medal (top 1% of all graduates)

## Academic Positions

**03/2025 – Present** **Research Assistant Professor**  
*PolyU, Department of Health Technology & Informatics (HTI)*

**11/2024 – 03/2025** **Research Assistant Professor**  
*HKUST, Department of Chemical & Biological Engineering (CBE)*

**09/2024 – 03/2025** **Honorary Fellow**  
*University of Wisconsin-Madison, Department of Biochemistry*

**09/2022 – 09/2024** **Postdoctoral Research Associate**  
*University of Wisconsin-Madison, Department of Biochemistry*  
• Patented the technology and the design of robust anti-*C. difficile* consortia.  
• Co-wrote an NIH R01 grant: A model-guided framework for designing precision microbiome interventions to inhibit *C. difficile*.

**09/2017 – 09/2022** **Graduate Student Research Scientist**  
*HKUST, Department of Chemical & Biological Engineering (CBE)*  
• Recipient of the Hong Kong PhD Fellowship (HKPFS).  
• Co-wrote and prepared preliminary data for a successful RGC GRF proposal (Grant No. 16102821).

**05/2018 – 06/2018** **Visiting Research Scientist**  
*Wuhan University, Key Laboratory of Combinatory Biosynthesis & Drug Discovery*

## Work Experience

**06/2016 – 07/2016** **Research and Development Intern**, PT. Indah Kiat Pulp & Paper, *Indonesia*

**09/2014 – 09/2016** **Promotional Secretary**, The American Institute of Chemical Engineers, *Hong Kong*

09/2013 – 09/2015 **Synthetic Biology Team Leader, HKUST, Hong Kong**  
• Led the HKUST team to win the gold medal during the iGEM 2014 competition.

## Grants, Fellowships, and Awards

### Funded External Grants

01/2026 – 01/2029 Guangdong Basic and Applied Basic Research Fund 2025.  
**Funding body:** Department of Science and Technology of Guandong Province (GDSTC)  
**Title:** “*Mechanisms by which cyanidin-3-O-glucoside-mediated regulation of Lactobacillus johnsonii A1 colonization mitigates aflatoxin B1-mediated hepatotoxicity*”  
Amount funded: RMB\$100,000, as **Co-I**

### Funded Internal Grants (> HK\$2.2 million)

10/2025 – 10/2026 Departmental General Research Support Fund 2025/2026.  
**Funding body:** HTI department, PolyU  
Amount funded: HK\$50,000

10/2025 – 10/2027 RiFood Interdisciplinary Project Fund 2025.  
**Funding body:** RiFood, PolyU  
**Title:** “*Designing optimal microbial consortia for treatment of metabolic diseases*”  
Amount funded: HK\$1,000,000, as **Co-I**

09/2025 – 09/2026 Departmental Focused Research Groups (FRGs) 2025.  
**Funding body:** HTI department, PolyU  
**Title:** “*Diabetes and Metabolic Diseases: From Pathogenesis to Therapy*”  
Amount funded: HK\$750,000

07/2025 – 09/2027 UGC Start-up Fund for RAPs under the Strategic Hiring Scheme 2025.  
**Funding body:** PolyU Central  
**Title:** “*Designing adjuvant probiotic consortia against recurrent Clostridioides difficile infection in obese/diabetic and aging conditions*”  
Amount funded: HK\$300,000, as **PI**

04/2025 – 10/2025 Departmental Seed Fund for External Research Grant Applications 2024/25.  
**Funding body:** HTI department, PolyU  
Amount funded: HK\$100,000

### Grant proposals currently under consideration:

- RGC General Research Fund (GRF) 2026/27 as PI
- NSFC/RGC Joint Research Scheme (JRS) 2026/27 as PI

### Previous attempted grant proposals:

- NSFC/RGC Joint Research Scheme (JRS) 2025/26 as PI
- Health and Medical Research Fund (HMRF) 2025/26 as PI
- RGC Collaborative Research Fund (CRF) 2025/26 as Co-I

### Fellowships and Awards

2023 International Conference on Microbiome Engineering (ICME) fellowship.

2022 HKUST RedBird academic excellence award.

2022 HKUST best postgraduate award for research excellence.

2019 – 2022 Hong Kong Ph.D. fellowship (HKPFS).

2021 Top rated poster in the 31<sup>st</sup> European Congress of Clinical Microbiology & Infectious Disease.

2021 Outstanding poster in the World Microbe Forum.

2019 & 2020 HKUST excellent research award.

2019 University Grant Council (UGC) Research Travel Grant.

2018 & 2019 Hong Kong Society of Mass Spectrometry (HKSMS) conference award.

2017 Winner of HKUST Chemical and Biological Engineering department logo design competition.

2017 First place award in the 4<sup>th</sup> ASPIRE Undergraduate Research Academy (UGRA), Daejeon, Korea.

2017 HKUST academic achievement medal (highest recognition for HKUST graduates).

2017	HKUST Chemical & Biological Engineering department undergraduate research excellence award.
2017	Mr. Armin and Mrs. Lillian Kitchell undergraduate research award.
2015 & 2016	Joseph Lau Luen Hung Charitable Scholarship.
2015	HKSAR Talent Development Scholarship.
2014 & 2015	HKUST RedBird Bronze & Silver award.
2014	Gold Medal out of 245 multidisciplinary teams in iGEM synthetic biology competition, Boston, MA.
2013 – 2017	HKUST School of Engineering Dean's List for 7 consecutive semesters.

## **Service to Professional & Scientific Bodies, Membership of Professional & Learned Societies**

09/2021 – Present	<b>Review Editor</b> <ul style="list-style-type: none"> <li>• <i>Frontiers in Microbiology (Antimicrobials, Resistance and Chemotherapy)</i></li> <li>• <i>Frontiers in Bioengineering and Biotechnology (Biomaterials)</i></li> <li>• <i>Frontiers in Cellular and Infection Microbiology (Clinical Microbiology)</i></li> <li>• <i>Frontiers in Cellular and Infection Microbiology (Molecular Bacterial Pathogenesis)</i></li> </ul>
09/2020 – Present	<b>Peer Reviewer</b> Provided >14 review reports for journals, including <i>Nature Ecology &amp; Evolution</i> , <i>mSystems</i> , <i>Microbiology Spectrum</i> , <i>Frontiers in Microbiology</i> , <i>Frontiers in Cellular and Infection Microbiology</i> , <i>Frontiers in Pharmacology</i> , <i>Annals of Medicine</i> , etc.
09/2018 – Present	<b>Member</b> <ul style="list-style-type: none"> <li>• <i>PolyU Research Institute for Future Food (RiFood)</i></li> <li>• <i>PolyU Research Centre for Chinese Medicine Innovation (RCMI)</i></li> <li>• <i>Hong Kong Society of Mass Spectrometry (HKSMS)</i></li> <li>• <i>American Society for Microbiology (ASM)</i></li> <li>• <i>American Chemical Society (ACS)</i></li> </ul>

## **Patents**

1. O. Venturelli, **J. E. Sulaiman**, "Microbial Communities that Inhibit *Clostridioides difficile* and Methods of Using Same.", U.S. Patent no. US20250228905A1 (2025).

## **Refereed Journal Publications (\* = Corresponding authors)**

Google scholar citations: 665, h-index: 12, i10-index: 15

1. K. Long, Z. Liu, P. Liu, B. Wang, A. Xu, **J. E. Sulaiman\***, K. Y. Cheng\*. "Lipodystrophy induces gut microbiota dysbiosis and its related glucose dysmetabolism in mice". *Under review in eBioMedicine*.
2. P. Liu, K. Long, Y. Wang, **J. E. Sulaiman**, B. Wang, X. Zhou, C. Liu, Y. Cheng, Y. Cai, A. Xu, K. Y. Cheng\*. "Activation of p53 in subcutaneous white adipose tissue induces hepatic fibrosis via galectin-3 in mouse model". *Under review in Metabolism*.
3. H. Tang, **J. E. Sulaiman**, Y. Zhang, Y. Yang, W. Zhong, J. Wang, H. Lei, Y. Liu\*. "Cyanidin-3-O-glucoside alleviates aflatoxin B<sub>1</sub>-induced splenic immunotoxicity via gut microbiota remodeling". *Under review in Journal of Hazardous Materials*.
4. J. Li, W. Ruan, **J. E. Sulaiman**, Y. Zhong, J. Wei, W. Xue, X. Jin, Y. Yang, H. Tang, H. Lei\*, Y. Liu\*. "Aflatoxin B<sub>1</sub>-induced gut-initiated systemic toxicity: Molecular mechanisms and gut-targeted interventions". *Under review*.
5. G. Gan, R. Chen, P. Zheng, K. Long, K. Y. Cheng\*, **J. E. Sulaiman\***, X. Huang\*. "Oral pathogens meet the gut microbiome in systemic diseases: Key pathogens and underlying mechanisms". *Frontiers in Cellular and Infection Microbiology*, 1673512 (2025).

*Impact factor (2024): 4.8. Rank of journal: 32/163 (Top 19.3%) in the field of Microbiology.*

6. K. Long, P. Liu, Y. Wang, **J. E. Sulaiman**, M. Hoque, H. Y. Li, D. Zhao, P. K. Lee, K. H. Siu, W. T. Lee, Z. Liu, P. K. So, Y. Cai, C. Woo, C. B. Chan, A. Xu, K. Y. Cheng\*. "Subcutaneous white adipose tissue-derived extracellular vesicles maintain intestinal homeostasis via IgA biosynthesis in aging mice." *Journal of Clinical Investigation*, 135:e188947 (2025).

*Impact factor (2024): 13.6. Rank of journal: 5/195 (Top 2.3%) in the field of Medicine, research & experimental.*

7. **J. E. Sulaiman\***, Y. Zhan, S. Wang, K. L. Lai, H. W. Li, Y. Yu, K. Tsim, K. Cheng\*, Y. Lai\*, H. Lam\*. "Proteomic study of *Akkermansia muciniphila* and *Bifidobacterium* species co-culture under different carbon sources." *Frontiers in Microbiology*, 16, 1666747 (2025).  
*Impact factor (2024): 4.5. Rank of journal: 38/163 (Top 23.0%) in the field of Microbiology.*

8. Y. Pan, T. Y. Wong, **J. E. Sulaiman\***, H. Lam\*. "Proteomic study of evolved *Pseudomonas aeruginosa* strains grown in *Staphylococcus aureus*- and *Klebsiella pneumoniae*-conditioned media." *mSystems*, e00111-25 (2025).  
*Impact factor (2024): 4.6. Rank of journal: 34/163 (Top 20.6%) in the field of Microbiology.*

9. **J. E. Sulaiman**, J. Thompson, P. L. Cheung, Y. Qian, J. Mill, I. James, H. Im, E. Vivas, J. Simcox, O. Venturelli\*. "Phocaeicola vulgaris shapes the long-term growth dynamics and evolutionary adaptations of *Clostridioides difficile*." *Cell Host & Microbe*, 33, 42-58 (2025)  
*Impact factor (2024): 18.7. Rank of journal: 6/163 (Top 3.4%) in the field of Microbiology.*

10. **J. E. Sulaiman**, J. Thompson, Y. Qian, E. Vivas, C. Diener, S. Gibbons, N. Safdar, O. Venturelli\*. "Elucidating human gut microbiota interactions that robustly inhibit diverse *Clostridioides difficile* strains across different nutrient landscapes." *Nature Communications*, 15, 7416 (2024).  
*Impact factor (2024): 15.7. Rank of journal: 10/136 (Top 7.0%) in the field of Multidisciplinary sciences.*

11. L. Long, Y. Xiao, **J. E. Sulaiman**, F. Luo, L. Wu, W. C. Wong, J. Tang, F. Chen, H. Lam, P.-Y. Qian\*. "Mechanistic Insight into the Inhibitory Activity of Elasnin-based Coating Against Early Marine Biofilms." *Environmental Science & Technology*, 57, 9515-9525 (2023).  
*Impact factor (2023): 10.9. Rank of journal: 18/358 (Top 4.9%) in the field of Environmental sciences.*

12. A. Cheng, Y. Zhang, J. Sun, D. Huang, **J. E. Sulaiman**, L. Wu, W. Ye, C. Wu, H. Lam, Y. Shi\*, P.-Y. Qian\*. "Pterosin Sesquiterpenoids from *Pteris laeta* Wall. ex Ettingsh. Protect Cells from Glutamate Excitotoxicity by Modulating Mitochondrial Signals." *Journal of Ethnopharmacology*, 308, 116308 (2023).  
*Impact factor (2023): 4.8. Rank of journal: 50/354 (Top 14.0%) in the field of Pharmacology & pharmacy.*

13. **J. E. Sulaiman**, L. Wu, H. Lam\*. "Mutation in the Two-component System Regulator YycH Leads to Daptomycin Tolerance in Methicillin-resistant *Staphylococcus aureus* upon Evolution with a Population Bottleneck." *Microbiology Spectrum*, 10, e01687-22 (2022).  
*Impact factor (2022): 3.7. Rank of journal: 62/135 (Top 45.6%) in the field of Microbiology.*

14. **J. E. Sulaiman**, L. Long, P.-Y. Qian, H. Lam\*. "Proteome Profiling of Evolved Methicillin-resistant *Staphylococcus aureus* Strains with Distinct Daptomycin Tolerance and Resistance Phenotypes." *Frontiers in Microbiology*, 13, 970146 (2022).  
*Impact factor (2022): 5.2. Rank of journal: 38/135 (Top 27.8%) in the field of Microbiology.*

15. **J. E. Sulaiman**, L. Long, P.-Y. Qian\*, H. Lam\*. "Proteomics and Transcriptomics Uncover Key Processes for Elasnin Tolerance in Methicillin-resistant *Staphylococcus aureus*." *mSystems*, 7, e01393-21 (2022).  
*Impact factor (2022): 6.4. Rank of journal: 24/135 (Top 17.4%) in the field of Microbiology.*

16. **J. E. Sulaiman**, L. Long, P.-Y. Qian\*, H. Lam\*. "Elasnin Effectively Eradicates Daptomycin-Resistant Methicillin-resistant *Staphylococcus aureus* Biofilms." *Microbiology Spectrum*, 10, e02320-21 (2022).  
*Impact factor (2022): 3.7. Rank of journal: 62/135 (Top 45.6%) in the field of Microbiology.*

17. L. Long, **J. E. Sulaiman**, Y. Xiao, A. Cheng, R. Wang, J. J. Malit, W. C. Wong, W. Liu, Y.-X. Li, F. Chen, H. Lam\*, P.-Y. Qian\*. "Mode of Action of Elasnin as Biofilm Formation Eradicator of Methicillin-resistant *Staphylococcus aureus*." *Frontiers in Microbiology*, 13, 967845 (2022).  
*Impact factor (2022): 5.2. Rank of journal: 38/135 (Top 27.8%) in the field of Microbiology.*

18. **J. E. Sulaiman**, H. Lam\*. "Proteomics in Antibiotic Resistance and Tolerance Research: Mapping the Resistome and the Tolerome of Bacterial Pathogens." *Proteomics*, 22, 2100409 (2022).  
*Impact factor (2022): 3.4. Rank of journal: 28/77 (Top 35.7%) in the field of Biochemical research methods.*

19. **J. E. Sulaiman**, H. Lam\*. "Novel Daptomycin Tolerance and Resistance Mutations in Methicillin-resistant *Staphylococcus aureus* from Adaptive Laboratory Evolution." *mSphere*, 6, e00692-21 (2021).  
*Impact factor (2021): 5.0. Rank of journal: 52/137 (Top 37.6%) in the field of Microbiology.*

20. **J. E. Sulaiman**, L. Long, L. Wu, P.-Y. Qian, H. Lam\*. "Comparative Proteomic Investigation of Multiple Methicillin-resistant *Staphylococcus aureus* Strains Generated through Adaptive Laboratory Evolution." *iScience*, 24, 102950 (2021).  
*Impact factor (2021): 6.1. Rank of journal: 15/74 (Top 19.6%) in the field of Multidisciplinary sciences.*

21. **J. E. Sulaiman**, H. Lam\*. "Evolution of Bacterial Tolerance under Antibiotic Treatment and its Implications on the Development of Resistance." *Frontiers in Microbiology*, 12, 617412 (2021).  
*Impact factor (2021): 6.1. Rank of journal: 34/137 (Top 24.5%) in the field of Microbiology.*

22. **J. E. Sulaiman**, H. Lam\*. "Proteomic Study of the Survival and Resuscitation Mechanisms of Filamentous Persisters in an Evolved *Escherichia coli* Population from Cyclic Ampicillin Treatment." *mSystems*, 5, e00462-20 (2020).  
*Impact factor (2020): 6.5. Rank of journal: 21/136 (Top 15.0%) in the field of Microbiology.*

23. **J. E. Sulaiman**, H. Lam\*. "Proteomic Investigation of Tolerant *Escherichia coli* Populations from Cyclic Antibiotic Treatment." *Journal of Proteome Research*, 19, 900-913 (2020).  
*Impact factor (2020): 4.5. Rank of journal: 17/78 (Top 21.2%) in the field of Biochemical research methods.*

24. **J. E. Sulaiman**, H. Lam\*. "Application of Proteomics in Studying Bacterial Persistence." *Expert Review of Proteomics*, 16, 227-239 (2019).  
*Impact factor (2019): 3.6. Rank of journal: 19/77 (Top 24.0%) in the field of Biochemical research methods.*

25. **J. E. Sulaiman**, C. Hao, H. Lam\*. "Specific Enrichment and Proteomics Analysis of *Escherichia coli* Persisters from Rifampin Pretreatment." *Journal of Proteome Research*, 17, 3984-3996 (2018).  
*Impact factor (2018): 3.8. Rank of journal: 15/79 (Top 18.4%) in the field of Biochemical research methods.*

26. **J. E. Sulaiman**, S. Zhu, Z. Xing, Q. Chang, M. Shao\*. "Pt–Ni Octahedra as Electrocatalysts for the Ethanol Electro-Oxidation Reaction." *ACS Catalysis*, 7, 5134 (2017). (*Undergraduate publication*)  
*Impact factor (2017): 11.4. Rank of journal: 13/147 (Top 8.5%) in the field of Physical chemistry.*

## **Presentations and Seminars**

### **Invited Talks/Lectures**

1. "Omics to study inter-species interactions of the human gut microbiota" 27<sup>th</sup> HKSMS Conference, Hong Kong (2025).

### **Conference Presentations**

2. **J. E. Sulaiman**, J. Thompson, Y. Qian, S. Hromada, E. Vivas, C. Diener, S. Gibbons, N. Safdar, O. Venturelli. "Mapping Gut Microbiota Interactions that are Robust to *C. difficile* Strain Variability and Nutrient Landscapes." 6<sup>th</sup> International Conference on Microbiome Engineering (ICME), Berkeley, California, USA (2023). (**Conference Award**)

3. **J. E. Sulaiman**, H. Lam. "Time-Course Proteome Profiling of Filamentous Persisters during Antibiotic Treatment and Resuscitation." 8<sup>th</sup> Asia-Oceania Mass Spectrometry Conference (AOMSC), Macau (2020).

4. **J. E. Sulaiman**, H. Lam. "Genomic and Proteomic Study of High Persistence Evolved *Escherichia coli* Populations from Cyclic Antibiotic Treatment." 22<sup>nd</sup> HKSMS Conference, Hong Kong (2019). (**Conference Award**)

5. **J. E. Sulaiman**, H. Lam. "Label-free Quantitative Proteomics Analysis of the *Escherichia coli* Persisters." 21<sup>st</sup> HKSMS Conference, Hong Kong (2018). (**Conference Award**)

6. **J. E. Sulaiman**, C. Hao, H. Lam. "Deep Quantitative Proteomics Analysis of the *Escherichia coli* Persisters." 28<sup>th</sup> European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Madrid, Spain (2018).

7. **J. E. Sulaiman**, L. Long, L. Wu, P.-Y. Qian, H. Lam. "Comprehensive Proteomic Analysis of Tolerant and Resistant Methicillin-resistant *Staphylococcus aureus* Strains Generated through Laboratory Evolution." 31<sup>st</sup> European Congress of Clinical Microbiology and Infectious Diseases (ECCMID) (2021). (**Top Rated Poster Award**)

8. **J. E. Sulaiman**, H. Lam. "Development of Tolerance and Resistance in Methicillin-resistant *Staphylococcus aureus* Under Daptomycin Treatment and Differences in the Proteome Profile of the Evolved Strains." 1<sup>st</sup> World Microbe Forum (2021). (**Outstanding Poster Award**)

9. **J. E. Sulaiman**, H. Lam. "Proteomics Reveal the Underlying Mechanisms of Filamentous Persisters during Ampicillin Treatment and Resuscitation." 68<sup>th</sup> American Society for Mass Spectrometry (ASMS) Conference (2020).

10. **J. E. Sulaiman**, H. Lam. "Genomic and Proteomic Study of Evolved *Escherichia coli* Populations from Cyclic Antibiotic Treatment Exhibiting High Persistence Phenotype." 29<sup>th</sup> European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Amsterdam, Netherlands (2019).

## **Teaching and Mentoring Experience**

### **Research Supervisor**

**09/2025 – present** PolyU, Department of Health Technology & Informatics

- Guangtao Yan (Research Assistant, 2025).
- Xin Cao (Research Assistant, 2025).
- Shan Su (Research Assistant, 2025).

**09/2024 – 06/2025** HKUST, Department of Chemical & Biological Engineering

- Yanrong Pan (HKUST, Bioengineering Ph.D., 2024-2025).
- Xing Wu (HKUST, Bioengineering Ph.D., 2024-2025).

<b>09/2023 – 06/2024</b>	<u>University of Wisconsin-Madison, Department of Biochemistry</u> • Arun Hajra (UW-Madison, Biochemistry undergraduate, 2023-2024).
<b>09/2018 – 06/2022</b>	<u>HKUST, Department of Chemical &amp; Biological Engineering</u> • Ishita Kumar (HKUST, CBE undergraduate, 2020-2021). • Lee Donghun (HKUST, CBE undergraduate, 2019-2020). • Mark Alexander Ngai (HKUST, CBE undergraduate, 2019-2020). • Maria Joscelind Alvina (HKUST, CBE undergraduate, 2018-2019).
<b>Course Instructor</b>	
<b>09/2025 – Present</b>	<u>PolyU, Department of Health Technology &amp; Informatics</u> • HTI34016/HTI37104 – Introduction to Clinical Research (190 students) <b>[Subject leader]</b> • HTI35001 – Cell Technology for Biomedical Research (14 students) <b>[Subject lecturer]</b>
<b>01/2025 – 06/2025</b>	<u>HKUST, Department of Chemical &amp; Biological Engineering</u> • BIEN4000D – Introduction to Omics Technologies (23 students) <b>[Subject leader]</b>
<b>Graduate Student Teaching Assistant</b>	
<b>09/2017 – 09/2021</b>	<u>HKUST, Department of Chemical &amp; Biological Engineering</u> • BIEN2310 - Modeling for Chemical and Biological Engineering • CENG2210 - Chemical Engineering Thermodynamics
<b>Undergraduate Student Teaching Assistant</b>	
<b>09/2016 – 09/2017</b>	<u>HKUST, Department of Chemical &amp; Biological Engineering</u> • CENG2210 - Chemical Engineering Thermodynamics • CENG1000 - Introduction to Chemical and Biomolecular Engineering