

Jordy Evan Sulaiman
Research Assistant Professor
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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
- 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 1st in the department

Academic Positions

- 03/2025 – Present** **Research Assistant Professor**
PolyU, Department of Health Technology & Informatics
- 11/2024 – 03/2025** **Research Assistant Professor**
HKUST, Department of Chemical & Biological Engineering
- 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
 - 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

Grants

- 07/2025 – 09/2027 UGC Start-up Fund for RAPs under the Strategic Hiring Scheme.
Amount funded: HK\$300,000 / ~US\$39,000, as **Project Coordinator**
- 31/2024 – 31/2025 Departmental Seed Fund for External Research Grant Applications 2024/25.
Amount funded: HK\$100,000 / ~US\$13,000, as **Project Coordinator**

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 31st 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 4th 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 **Review Editor**
- *Frontiers in Microbiology (Antimicrobials, Resistance and Chemotherapy)*
 - *Frontiers in Bioengineering and Biotechnology (Biomaterials)*
 - *Frontiers in Cellular and Infection Microbiology (Clinical Microbiology)*
 - *Frontiers in Cellular and Infection Microbiology (Molecular Bacterial Pathogenesis)*
- 09/2020 – Present **Peer Reviewer**
- Provided >10 review reports for journals, including *Nature Ecology & Evolution*, *mSystems*, *Microbiology Spectrum*, *Frontiers in Microbiology*, *Frontiers in Cellular and Infection Microbiology*, *Frontiers in Pharmacology*, *Annals of Medicine*, etc.
- 09/2018 – Present **Member**
- *Hong Kong Society of Mass Spectrometry (HKSMS)*
 - *American Society for Microbiology (ASM)*
 - *American Chemical Society (ACS)*

Patents

1. O. Venturelli, **J. E. Sulaiman**. "Microbial Communities that Inhibit *Clostridioides difficile* and Methods of Using Same.", U.S. Patent App., application number 63/621,370 (2025).

Refereed Journal Publications (* = Corresponding authors)

Google scholar citations: 590, h-index: 10

[Impact factors and ranks refer to Journal Citation Reports 2023](#)

1. **J. E. Sulaiman***, Y. Zhan, S. Wang, K. L. Lai, H. W. Li, Y. Yu, K. Tsim, K. Cheng*, Y. Lai*, H. Lam*. "Glycans shape inter-species interactions and proteome profiles of *Akkermansia muciniphila* and *Bifidobacterium*." *Under review*.
2. 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: 6.4. Rank of journal: 24/135 (Top 17.4%) in the field of Microbiology.
3. **J. E. Sulaiman**, J. Thompson, P. L. Cheung, Y. Qian, J. Mill, I. James, H. Im, E. Vivas, J. Simcox, O. Venturelli*. "*Phocaeicola vulgatus* shapes the long-term growth dynamics and evolutionary adaptations of *Clostridioides difficile*." *Cell Host & Microbe*, 33, 42-58 (2025).
Impact factor: 30.3. Rank of journal: 4/135 (Top 2.6%) in the field of Microbiology.
4. **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: 16.6. Rank of journal: 6/73 (Top 7.5%) in the field of Multidisciplinary sciences.
5. 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: 11.4. Rank of journal: 19/275 (Top 6.7%) in the field of Environmental sciences.
6. A. Cheng, Y. Zhang, J. Sun, D. Huang, **J. E. Sulaiman**, L. Wu, W. Ye, C. Wu, H. Lam, Y. Shi*, P.-Y. Qian*. "Pterisin Sesquiterpenoids from *Pteris laeta* Wall. ex Ettingsh. Protect Cells from Glutamate Excitotoxicity by Modulating Mitochondrial Signals." *Journal of Ethnopharmacology*, 308, 116308 (2023).
Impact factor: 5.4. Rank of journal: 50/278 (Top 17.8%) in the field of Pharmacology & pharmacy.
7. **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: 3.7. Rank of journal: 62/135 (Top 45.6%) in the field of Microbiology.
8. **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: 5.2. Rank of journal: 38/135 (Top 27.8%) in the field of Microbiology.
9. **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: 6.4. Rank of journal: 24/135 (Top 17.4%) in the field of Microbiology.
10. **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: 3.7. Rank of journal: 62/135 (Top 45.6%) in the field of Microbiology.
11. 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: 5.2. Rank of journal: 38/135 (Top 27.8%) in the field of Microbiology.
12. **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: 3.4. Rank of journal: 28/77 (Top 35.7%) in the field of Biochemical research methods.
13. **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: 4.8. Rank of journal: 44/135 (Top 32.2%) in the field of Microbiology.
14. **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: 5.8. Rank of journal: 15/73 (Top 19.9%) in the field of Multidisciplinary sciences.
15. **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: 5.2. Rank of journal: 38/135 (Top 27.8%) in the field of Microbiology.
16. **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: 6.4. Rank of journal: 24/135 (Top 17.4%) in the field of Microbiology.

17. **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: 4.4. Rank of journal: 17/77 (Top 21.4%) in the field of Biochemical research methods.
18. **J. E. Sulaiman**, H. Lam*. "Application of Proteomics in Studying Bacterial Persistence." *Expert Review of Proteomics*, 16, 227-239 (2019).
Impact factor: 3.4. Rank of journal: 28/77 (Top 35.7%) in the field of Biochemical research methods.
19. **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: 4.4. Rank of journal: 17/77 (Top 21.4%) in the field of Biochemical research methods.
20. **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: 12.9. Rank of journal: 22/161 (Top 13.4%) in the field of Physical chemistry.

Presentations and Seminars

Invited Talks/Lectures

1. "Omics to study inter-species interactions of the human gut microbiota" 27th 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." 6th 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." 8th 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." 22nd HKSMS Conference, Hong Kong (2019). (**Conference Award**)
5. **J. E. Sulaiman**, H. Lam. "Label-free Quantitative Proteomics Analysis of the *Escherichia coli* Persisters." 21st HKSMS Conference, Hong Kong (2018). (**Conference Award**)
6. **J. E. Sulaiman**, C. Hao, H. Lam. "Deep Quantitative Proteomics Analysis of the *Escherichia coli* Persisters." 28th 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." 31st 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." 1st 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." 68th 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." 29th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Amsterdam, Netherlands (2019).

Teaching and Mentoring Experience

09/2018 – Present Research Mentor

- Yanrong Pan (HKUST, Bioengineering Ph.D., 2024-2025).
- Xing Wu (HKUST, Bioengineering Ph.D., 2024-2025).
- Arun Hajra (UW-Madison, Biochemistry undergraduate, 2023-2024).
- 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).

09/2025 – Present Course Instructor

- PolyU, Department of Health Technology & Informatics
- HTI34016 – Introduction to Clinical Research

- HTI35001 – Cell Technology for Biomedical Research

01/2025 – 06/2025

Course Instructor

HKUST, *Department of Chemical & Biological Engineering*

- BIEN4000D – Introduction to Omics Technologies

09/2017 – 09/2021

Graduate Student Teaching Assistant

HKUST, *Department of Chemical & Biological Engineering*

- BIEN2310 - Modeling for Chemical and Biological Engineering
- CENG2210 - Chemical Engineering Thermodynamics

09/2016 – 09/2017

Undergraduate Student Teaching Assistant

HKUST, *Department of Chemical & Biological Engineering*

- CENG2210 - Chemical Engineering Thermodynamics
- CENG1000 - Introduction to Chemical and Biomolecular Engineering