

## *Curriculum Vitae*

### *Personal and Contact Information*

- Name with Initials : M.K.S.Fernando
- Name in Full : Mandadige Kalindu Shyamawarna Fernando
- Gender : Male
- Birthday : 21.12.1993
- Marital Status : Single
- Mobile : (+94) 74 3879582
- Email : kalindus@uom.lk
- Postal Address : 30/7, Fonseka Road, Kalutara North, Sri Lanka



### *Professional Affiliations*

- 2021-Present Associate Member, Institute of Engineers Sri Lanka Credential ID: AM-27850
- 2021-Present Associate Engineer, Engineering Council Sri Lanka Credential ID: 214422
- 2025-Present Life Time Full Member, Sri Lanka Association for the Advancement of Science Credential ID: 12416/C
- 2017-2021 Student Member, Institute of Engineers, Sri Lanka Credential ID: S-21845

### *Educational Qualifications*

- 2019-2024 Doctor of Philosophy in Chemical and Biomolecular Engineering  
Hong Kong University of Science and Technology, Hong Kong SAR  
[Passed with minor corrections to the thesis]
- 2014-2018 Bachelor of Science of Engineering (Honours) specialized in  
Chemical and Process Engineering, University of Moratuwa, Sri Lanka  
[Minor in Entrepreneurship, First class (GPA:3.89/4.20)]

### *Schools Attended*

- 2010-2013 Royal College, Colombo 07, Sri Lanka  
[Passed GCE Advanced Level Examination (Physical Science) in 2013]
- 2004-2009 Prince of Wales College, Moratuwa, Sri Lanka  
[Passed GCE Ordinary Level Examination in 2009]
- 1999-2003 Tissa Central National School, Kalutara, Sri Lanka  
[Passed Grade Five Scholarship Examination in 2003]

## ***Professional Qualifications***

- 2025/01-Present Lecturer (on contract)  
Department of Chemical and Process Engineering, Faculty of Engineering,  
University of Moratuwa, Sri Lanka
- 2019/08-2024/10 Graduate Teaching Assistant  
Department of Chemical and Biological Engineering Department, Hong Kong  
University of Science and Technology, School of Engineering, Hong Kong
- 2019/01-2019/07 Graduate Instructor  
Department of Chemical and Process Engineering, Faculty of Engineering,  
University of Moratuwa, Sri Lanka
- 2017/07-2017/12 Process Engineering Intern  
Oil Refinery, Ceylon Petroleum Corporation, Sapugaskanda, Kelaniya,  
Sri Lanka
- 2013/09-2014/09 Temporary Teller  
Kalutara Branch, Peoples' Bank, Sri Lanka

## ***Academic Honors and Awards***

- 2023 Best Graduate Teaching Assistant  
Department of Chemical and Biological Engineering, Hong Kong University  
of Science and Technology
- 2021 Excellent Research Award for HKPFS awardees  
School of Engineering, Hong Kong University of Science and Technology
- 2020 Hong Kong PhD Fellowship  
Research Grant Council, Hong Kong
- 2019 Best Research Presentation, Undergraduate Research Symposium  
Department of Chemical and Process Engineering, University of Moratuwa, Sri  
Lanka
- 2014 Mahapola Higher Education Scholarship  
The Mahapola Higher Education Scholarship Trust Fund, Sri Lanka

## ***Publications***

### Journal Publications

- **Fernando, K.S**, Jahanmir, G., C. Unarta, I. & Chau, Y. Multiscale Computational Framework for the Liquid-Liquid Phase Separation of Intrinsically Disordered Proteins. *Langmuir* 40(14), 7607-7619 (2024)
- **Fernando, K.S** & Chau, Y Multi-Scale In-silico Analysis of Phase Separation Behavior of FUS Mutants, *Journal of Materials Chemistry B*, 48(12),12608-12617 (2024)

- Feng Ruilu, Rafiei Mehrnoosh, **Fernando K. S**, Chau Y. Direct cytosol delivery of mRNA by micron-sized co-assembly with designer oligopeptide. *Journal of Materials Chemistry B*, 13(6), 2167-2179 (2025)

#### Conference Proceedings

- **Fernando K.S**, Chau. Y, (2023/07), “A multi-scale model for reversible assembly of FUS and irreversible aggregation of its G156E mutant”, Controlled Release Society Annual Meeting & Expo 2023, Las Vegas, Nevada, USA.
- **Fernando K.S**, Feng R., Chau. Y, (2023/07), “A Molecular Dynamics study for salt-mediated size-tunable designer peptide/mRNA co-assembly for efficient cytosol delivery” Controlled Release Society Annual Meeting & Expo 2023, Las Vegas, Nevada, USA.
- **Fernando K.S**, Chau Y. (2023/04). A multi-scale computational model for liquid-liquid and liquid-solid phase separation of intrinsically disordered protein mimicking polymer peptide hybrids. 2023 ACS Fall Meeting, virtual, 13 August 2023. San Francisco, California, USA.
- **Fernando K.S**, Chau Y. (2023/04). Modeling of intrinsically disordered protein-mimicking hybrids for the membraneless organelles formation. 2023 MRS Spring Meeting & Exhibit, 13 April 2023. San Francisco, California, USA.
- **Fernando K.S**, Jahanmir G, Unarta I.C, Liu J, Chau Y. (2021/04). Associate polymer theory-inspired modeling of intrinsically disordered protein mimicking polymer-oligopeptide hybrids for the formation of artificial membraneless organelles. 2021 Virtual MRS Spring Meeting & Exhibit, Virtual, 22 April 2021. Honolulu, Hawaii, USA.
- **Fernando K.S**, Silva S.A.B. Gunasekara M.Y. (2019/10). Hydrolysis of Ethyl Acetate using Acid Treated Activated-Carbon Catalyst. Annual Sessions of IESL, (pp. 453-457). Colombo, Sri Lanka

#### *Workshops and training programs attended*

- 2024/06                      The two-day workshop on “AI Strategies for University Education” was conducted by the Association of Pacific Rim Universities (APRU) at Hong Kong University of Science and Technology, Hong Kong.
- 2023/11                      The one-week workshop and conference on “Sustainable Engineering Education” was conducted by the Asia-Oceania Top University League on Engineering (AOTULE) at the University of Moratuwa, Sri Lanka.
- 2020/02                      The one-day Mental Health First Aid Standard Course was conducted by the Mental Health Association of Hong Kong at the Hong Kong University of Science and Technology.

### ***Volunteering***

- 2019/09-2024/07 Teacher at Dhamma School in Sri Lanka Buddhist Cultural Center, Hong Kong (SLBCCHK).
- 2018/09 Goal Leader (Process Optimization and Energy Recovery) – National Chemical and Process Engineering Conference (COMPASS ‘18)

### ***Referees***

Prof. Ying Chau Department of Chemical & Biological Engineering School of Engineering Hong Kong University of Science and Technology Email : <a href="mailto:keychau@ust.hk">keychau@ust.hk</a> Tel : (+852) 2358 8935	Prof. M.Y.Gunasekera Department of Chemical & Process Engineering Faculty of Engineering University of Moratuwa Email : <a href="mailto:manisha@uom.lk">manisha@uom.lk</a> Tel : (+94) 1122640051 Ext:4109
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I hereby certify that the above indicated particulars of this CV are genuine and accurate.



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Kalindu S. Fernando