

## **MOK, Heng Ngee**

School of Computing and Information Systems  
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## **Education**

Master of Education, University of the People, United States of America, 2025  
Master of Science, Nanyang Technological University, Singapore, 2004  
Bachelor of Applied Science, Nanyang Technological University, Singapore, 1999

## **Academic Appointments**

Senior Lecturer of Computer Science, School of Computing and Information Systems, SMU, Jul 2024 - Present  
Lecturer of Computer Science, School of Computing and Information Systems, SMU, Jul 2021 - Jun 2024  
Principal Instructor, SCIS, SMU, Singapore, Apr 2018 - Jun 2021  
Senior Instructor, SCIS, SMU, Singapore, Apr 2010 - Mar 2018  
Instructor, SCIS, SMU, Singapore, Apr 2006 - Mar 2010  
Lecturer, School of IT, Nanyang Polytechnic, Singapore, Jan 2002 - Dec 2005

## **Academic Administrative Positions**

Director, BSc (Software Engineering) WSDeg Programme, School of Computing and Information Systems, SMU, Nov 2021 - Present

## **Other Positions and Affiliations**

Senior Research Analyst, Frost & Sullivan, Singapore, Jan 2006 - Mar 2006  
Freelance Journalist, Special Projects, Singapore Press Holdings, Singapore, Jul 1999 - Dec 2005  
Software Engineer, NCS Pte Ltd, Singapore, Jul 1999 - Dec 2003

## **Professional Certifications**

Advanced Diploma in Corporate Banking, ifs School of Finance, 2007  
Diploma in Law, University of London, 2003

## Awards and Honors

National Blood Programme: Diamond Award, Singapore Red Cross, 2023

Long Service & Good Conduct Medal (2nd clasp), Singapore Police Force, 2022

SMU Faculty/Staff Contribution to Student Life Award (Individual), SMU, 2017

Commendation by Commissioner of Police, Singapore Police Force, 2007, 2005

SIM Scholarship (Grad Dip in Corp. Banking), Singapore Institute of Management, 2005

Award for Academic Achievement (Diploma in Law), University of London, 2003

## Professional Memberships

Member, Singapore Computer Society, 2021

Member, ACM SIGCSE, 2018

Member, IEEE, 1999

## RESEARCH

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### Publications

#### Journal Articles [Refereed]

Teaching tip: The flipped classroom, by MOK, Heng Ngee. (2014). *Journal of Information Systems Education*, 25 (1), 7-11. (Published)

Student Usage Patterns and Perceptions for Differentiated Lab Exercises in an Undergraduate Programming Course, by MOK, Heng Ngee. (2012). *IEEE Transactions on Education*, 55 (2), 213-217. <https://doi.org/10.1109/TE.2011.2162070> (Published)

Setting up a low-cost lab management system for a multi-purpose computing laboratory using virtualisation technology, by MOK, Heng Ngee; TAN, Wee Kiat. (2012). *Australasian Journal of Educational Technology*, 28 (2), 266-278. <http://www.ascilite.org.au/ajet/ajet28/mok.html> (Published)

A review of the professionalization of the software industry: Has it made software engineering a real profession?, by MOK, Heng Ngee. (2010). *International Journal of Information Technology*, 16 (1), 61-75. [http://www.intjit.org/journal/volume/16/1/161\\_5.pdf](http://www.intjit.org/journal/volume/16/1/161_5.pdf) (Published)

#### Books (Non-Refereed)

*From Java to C#: A Java Developer's Guide* by MOK, Heng Ngee. (2003). Boston, MA: Addison-Wesley Longman. (Published)

#### Conference Proceedings

Towards automated slide augmentation to discover credible and relevant links, by DINUSHKA, Dilan; POSKITT, Christopher M.; KOH, Kwan Chin; MOK, Heng Ngee; LAUW, Hady W.. (2024.0). *Artificial Intelligence in Education: 25th International Conference, AIED 2024, Recife, Brazil, July 8-12*, (pp. 200-208) Cham: Springer. [https://doi.org/10.1007/978-3-031-64312-5\\_24](https://doi.org/10.1007/978-3-031-64312-5_24) (Published)

Teaching basic programming to pre-university students through blended learning pedagogy: A descriptive

study, by RAMACHANDRA RAO, Vandana; MOK, Heng Ngee. (2018.0). *Transactions of ISATE: The 12th International Symposium on Advances in Technology Education, Nurturing Professionals for Smart Cities: Way Forward for Technology Education, 18-21 September 2018, Hong Kong*, (pp. 1-6) Hong Kong: Vocational Training Council. (Published)

Introducing basic programming to pre-university students: A successful initiative in Singapore, by MOK, Heng Ngee; RAMACHANDRA RAO, Vandana. (2018.0). *2018 17th International Conference on Information Technology Based Higher Education and Training (ITHET): Proceedings, Olhao, Portugal, April 26-28*, (pp. 1-7) Piscataway, NJ: IEEE. <https://doi.org/10.1109/ITHET.2018.8424783> (Published)

## Theses and Dissertations

*Current Issues in Voice over IP* (Master's thesis), by H. N. Mok. (2004). Nanyang Technological University.

## Research Grants

### Singapore Management University

Slide++: Automatic Augmentation of Academic Slides Towards AI-Enabled Student-Centred Learning, Tertiary Education Research Fund (TRF), Ministry of Education (MOE) , PI (Project Level): Hady W. LAUW, 2022, S\$262,196

Let's Code! – Teaching Pre-University Students Coding Using a Blended Learning Approach, MOE Academies Fund, National Institute of Education (NIE) , PI (Project Level): MOK, Heng Ngee , Co-PI (Project Level): RAMACHANDRA RAO Vandana, 2015, S\$98,683

## TEACHING

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### Courses Taught

#### Singapore Management University

Undergraduate Programmes :

Advanced Programming and Design

Algorithms and Programming

Business Data Management

Computational Thinking

Data Management

Health Economics and Management Work-study Elective

Health Economics and Management Work-Study Elective

Information Systems and Innovation

Web Application Development II

## OTHER ACADEMIC AND PROFESSIONAL ACTIVITIES

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## Media Contributions and Citations

SMU Pilot Introduces JC, IP Students to Programming, Today, 22 Jun 2015

[https://www.smu.edu.sg/sites/default/files/smu/news\\_room/smu\\_in\\_the\\_news/2015/june/june22/TODAY\\_20150622\\_1.pdf](https://www.smu.edu.sg/sites/default/files/smu/news_room/smu_in_the_news/2015/june/june22/TODAY_20150622_1.pdf)

SMU to Broaden Learning for Freshmen, AsiaOne, 26 May 2014

<https://www.asiaone.com/singapore/smu-broaden-learning-freshmen>

## UNIVERSITY SERVICE

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### Singapore Management University

Judge, Project HeartCode (Student Community Service Project), Dec 2024

Judge, Ellipsis (SCIS Student Club) Tech Series Hackathon, Aug 2024

Committee Member, Adult Learner Working Group, Aug 2023 - Present

Sponsor, Google Career Certifications, Dec 2022 - Present

Faculty Representative, Singapore Computer Society Student Chapter, Jan 2012 - Present

## EXTERNAL SERVICE – PROFESSIONAL

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Reviewer Conference Paper, SIGCSE TS 2026 (57th ACM Technical Symposium on Computer Science Education), ACM, 2025

Reviewer Conference Paper, SIGCSE TS 2025 (56th ACM Technical Symposium on Computer Science Education), ACM, 2024

Judge, TikTok Hackathon Challenge, ByteDance, 2023

Reviewer Conference Paper, SIGCSE TS 2024 (55th ACM Technical Symposium on Computer Science Education), ACM, 2023

Reviewer Conference Paper, SIGCSE TS 2022 (53rd ACM Technical Symposium on Computer Science Education), ACM, 2021

Reviewer Conference Paper, SIGCSE TS 2021 (52nd ACM Technical Symposium on Computer Science Education), ACM, 2020

Member, Syllabus Development Committee for “A” -level Computing Syllabus (H2 Computing), Ministry of Education, 2015

Member, Editorial Board, Journal of Information Systems Education (JISE), 2014 - 2022

Reviewer Ad Hoc Reviewer, Guide to the Software Engineering Body of Knowledge v3.0 (SWEBOK 3), IEEE Computer Society, 2014

## EXTERNAL SERVICE – PUBLIC SECTOR AND COMMUNITY SERVICE

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Volunteer, Singapore Police Force, 2003 - Present