

Curriculum Vitae



Associate Professor Chui Yoon Ping

Deputy Dean, Core Learning

College of Interdisciplinary and Experiential Learning (CIEL)

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Education Qualifications

1994

PhD, Human-Computer Interaction, Loughborough University of Technology, UK

2001

Postgraduate Diploma of Teaching in Higher Education (PGDipTHE), National Institute of Education, Nanyang Technological University (NTU), Singapore

2009

Masters in Sociology (Counselling), University of South Australia, Australia

1989

BSc.(Hons), Ergonomics, Loughborough University of Technology, UK

Academic and Professional Experience

2022 (October) – Present

Deputy Dean, Core Learning, College of Interdisciplinary & Experiential Learning (CIEL), SUSS

2022

Director, Centre for University Core (CUC), College of Experiential and Lifelong Learning (CLEL), SUSS

2008 – 2022

Head, Human Factors in Safety Programme, School of Science and Technology, SUSS

2022 – Present

Adjunct Associate Professor, Department of Chemical & Biomolecular Engineering (ChBE), College of Design and Engineering, National University of Singapore (NUS)

2008 – 2017

External Faculty, School of Mechanical & Aerospace Engineering, Nanyang Technological University (NTU), Singapore

1999 – 2007

Assistant Professor, School of Mechanical & Aerospace Engineering, Nanyang Technological University (NTU), Singapore

2005 – 2007

Assistant Chair, Alumni, NTU, Singapore

2001 – 2007

Deputy Director, Centre for Human Factors and Ergonomics, NTU, Singapore

1995 – 1999

Research Scientist, Defence Medical Research Institute (now Defence Medical & Environmental Research Institute, Defence Science Organisation), Singapore

Memberships and Professional Activities

2021 – Present

Member, 3rd External Review Panel on SAF Safety (ERPSS)

2018 – 2021

Member, 2nd External Review Panel on SAF Safety (ERPSS)

2018 – Present

Member, National Work at Height Safety Taskforce, Workplace Safety and Health Council (WSHC), Singapore

2013 – 2015

Inaugural Honorary Fellow, Workplace Safety and Health Institute (WSHI)

2015 – 2017

Member, WG for Website and E-Service Design for Senior Citizens, SPRING SINGAPORE

2019 – Present

Director (Education), Human Factors and Ergonomics Society of Singapore (HFESS)

Consultancy and Executive Experience

- Baxter Healthcare (Human Factor Studies and Evaluation of Baxter Compounding Centre for the design and development of NextGen Compounding Centre)
- SIA Cabin Crew Division, Singapore Airlines (Conducted 'Train-the-Trainers' Courses)
- Ministry of Manpower (Conducted 'Train-the-Trainers' Courses)
- MobileOne Singapore Pte. Ltd (Usability Evaluation of M1 Website)
- Laryngeal Mask Company (S) Pte. Ltd. (Usability studies of laryngeal mask)
- Hewlett Packard (Singapore) Pte. Ltd. (Usability studies of mobile devices)
- Singapore Technologies Kinetics Ltd. (Development of Mental Workload Measurements)
- Peridot Health System, Singapore (Usability Evaluation of System)

Recent Speaking Engagements

- 2023 Invited Guest Speaker for the **Army Safety Day, SAF**, 28th April 2023.
Title of Presentation: *Human Factors and Behavioural Management for Safety.*
- 2023 Invited Guest Speaker for the **Changi Airport Annual Crises Seminar**, 7th Mar 2023.
Title of Presentation: *Raising preparedness through management of team and team situational awareness.*
- 2022 Invited Keynote speaker for the **Woodlands Health Quality Week Main Event**, 19th Sep 2022.
Title of Presentation: *Teamwork in Healthcare - The Human Factors Perspective.*
- 2021 Invited Guest Speaker for the **SMRT 10th Technical Advisory Panel Meeting**, 29th Oct 2021.
Title of Presentation: *Managing Human Factors for Safety.*
- 2021 Invited Guest Speaker for the **Work At Height Symposium 2021** - "Managing Work at Heights in The New Normal" 3rd to 4th March 2021.
Title of Presentation: *Work at Height Managing the Human Factors.*
- 2019 Invited Guest Speaker for the **Forum On Workplace Safety and Health Education @ IHLs**, 7th Oct 2019, Singapore Polytechnic.
Title of Presentation: *Raising safety awareness in an adult learning institution.*
- 2019 Invited Guest Speaker for the **Dialogue with Young WSH Professionals** - 17 July 2019, NTUC Centre.
Title of Presentation: *Upgrading your professionalism in WSH.*
- 2019 Invited Guest Speaker for the **Forum On Workplace Safety and Health Education @ IHLs**, 7th Oct 2019, Singapore Polytechnic.
Title of Presentation: *Raising safety awareness in an adult learning institution.*
- 2018 Invited Distinguished Speaker for the **Total Workplace Safety Health Convention 2018**, Marina Bay Sands Convention Centre, 15th May 2018.
Title of Presentation: *Significance of Human Factors in the Implementation of Total WSH.*

- 2017 Invited Distinguished Speaker for the 20th **Conference and Exhibition on Occupational Safety and Health** held at the Putrajaya International Convention Centre, Malaysia, on the 18th and 19th of October.
Title of Presentation: *Total Workplace Health and Safety.*

Research Interests

- Workplace Safety and Health
- Situational Awareness in Complex Environment
- Team Situation Awareness and performance in Complex Environment
- User Experience Design
- Knowledge Management of Team in Product Design

Selected Publications

Pabba Anubharath, Yoon Ping Chui, Judy Sng Chia Ghee, Lixia Zhu, Kai Tham and Edmund J.D. Lee, **Usability and user experience evaluation of Virtual Integrated Patient**, ASCILITE 2019- 36th International Conference on Innovation, Practice and Research in the Use of Educational Technologies in Tertiary Education, SUSS, Singapore, 2-5 Dec 2019.

Y. P. Chui. and T.H. Tan., **Humans Still Matter in Productivity, Safety and Technology**. The Heart of Learning, Chapter 12, Leong, T.H. and Cheah, H.M. (Eds), Singapore University of Social Sciences, 2017.

SS 618 Guidelines on User Interface Designs for Older Adults: Overview of SS 618 and Its Application. Singapore Standards Council. Published by SPRING Singapore. [Member of Working Group].

Peacock, B., Chui, Y.P. and Hedge, A., **A Macroergonomics View of Transportation**. Ergonomic Workplace Design for Health, Wellness, and Productivity, Chapter 16, Hedge, A (Editor), CRC Press, 2016.

Peacock, B., Chui, Y.P. and Low, S., **The Employment of Senior Citizens in Singapore**.

5th International Conference on Applied Human Factors and Ergonomics 2014, Krakow, Poland.

Chan, C.M.L, Mehta, K., Tan, K.S.Y., Chui, Y.P., Hassan, S., and Koh, B.Y.R. **Designing e-services for an ageing society**. International Conference on Information Systems 2013, Reshaping Society Through Information Systems Design December 15-18, 2013, Universita Bocconi, Milan, Italy.

Sulistyawati, K., Wickens, C.D., and Chui Y.P., **Prediction in Situation Awareness: Confidence Bias and Underlying Cognitive Abilities**. The International Journal of Aviation Psychology. Volume 21, Issue 2, 2011, Pages 153 – 174.

Sulistyawati, K., Chui, Y.P., & Wickens, C. D., **Exploring the concept of team situation awareness in a simulated air combat environment**. Journal of Cognitive Engineering and Decision Making, Volume 3, Number 4, Winter 2009.

Sulistyawati, K. and Chui, Y.P., **Confidence Bias in Situation Awareness**. Proceedings of 8th International Conference, EPCE 2009, Held as Part of HCI International 2009, San Diego, CA, USA, July 19-24, 2009, Lecture Notes in Computer Science (LNCS) Engineering Psychology and Cognitive Ergonomics, Volume 5639/2009, Springer Berlin / Heidelberg.

Sulistyawati, K., Chui, Y.P., & Wickens, C. D., **Multi-method Approach to Team Situation Awareness**. Presented at Human Factors and Ergonomics Society's 52nd Annual Meeting, September 22-26, New York, US., 2008.

Qiu, Y. F., Chui, Y. P., Helander M. G., **A cognitive understanding of knowledge processing and modeling in design**. Journal of Knowledge Management, 2008, Volume 12, No 2, pp 156-168.

Seet, G., Iastrebov, V., Asokan, T., Chui, Y.P., Lay, M.W.S., **Vision Enhancement Using Stereoscopic Telepresence for Remotely Operated Underwater Robotic Vehicles**. Journal of Intelligent and Robotic Systems, 2008. Published online: 10 Feb 2008.

Qiu, Y. F., Chui, Y. P., Helander M. G., **A cognitive approach to understanding knowledge-based virtual team decision making in product design**. International Journal of Intelligent Enterprise. 2008, Vol 1, No 1, 2007pp 45-64.

Sulistyawati, K., Chui, Y.P., and Wee, Y.K., **Evaluation of process tracing technique to assess pilot situation awareness in air combat missions**. In D. Harris (Ed.), Engineering Psychology and Cognitive Ergonomics, Lecture Notes in Computer Science, 2007, Vol. 4562 (pp.824-833). Springer: Heidelberg, Germany.

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