

## Curriculum Vitae



### **Dr Teo Leong Hwee**

Senior Lecturer, Core Learning

College of Interdisciplinary and Experiential Learning (CIEL)

Tel : +65 6248 0419

### **Education Qualifications**

- |      |   |
|------|---|
| 2011 | PhD in Human-Computer Interaction, Carnegie Mellon University, USA  |
| 1999 | Master of Human-Computer Interaction, Carnegie Mellon University, USA   |
| 1999 | Bachelor of Science in Computer Science and Human-Computer Interaction with University Honours, Carnegie Mellon University, USA |

### **Academic and Professional Experience**

- |             |  |
|-------------|--|
| 2022 - 2022 | Associate Faculty, School of Science & Technology, Singapore University of Social Sciences   |
| 2020 - 2021 | Principal Scientist and Acting Deputy Director, Human Performance, Interaction and Teaming, Human Factors and Simulation Centre of Expertise, Home Team Science and Technology Agency, Singapore |
| 2018 - 2022 | Adjunct Assistant Professor, Information Systems Technology and Design, Singapore University of Technology and Design  |
| 2012 - 2012 | Visiting Scientist, U.S. DoD – Singapore MINDEF Engineer and Scientist Exchange Program, U.S. Air Force Research Laboratory  |
| 2011 - 2020 | Senior Member of Technical Staff, Applied Behavioural and Cognition Laboratory, DSO National Laboratories, Singapore   |
| 2006 - 2006 | Graduate Research Intern, User Interface Research Group, Palo Alto Research Centre, USA  |
| 2003 - 2005 | Senior Member of Technical Staff, Human Factors Engineering Programme, DSO National Laboratories, Singapore  |
| 2000 - 2003 | Research Engineer, Human Factors Engineering Programme, Defence Science and Technology Agency, Singapore   |
| 2000 - 2000 | Member of Technical Staff, Informatics Laboratory, Centre for Decision Support, DSO National Laboratories, Singapore   |

### Memberships and Professional Activities

|                |   |
|----------------|---|
| 2023 - present | Member of Human Factors and Ergonomics Society of Singapore   |
| 2020 - 2020    | Member of Scientific Committee for Joint Congress of the Asian Council of Ergonomics and Design and the Southeast Asian Network of Ergonomics Societies |
| 2016 - 2016    | Reviewer for ACM International Joint Conference on Pervasive and Ubiquitous Computing   |
| 2014 - 2016    | Reviewer for International Journal of Human-Computer Studies  |
| 2014 - 2016    | Reviewer for ACM SIGCHI Conference on Human Factors in Computing Systems  |
| 2014 - 2014    | Reviewer for 3 <sup>rd</sup> International Conference of the Southeast Asian Network of Ergonomics Societies  |
| 2013 - 2013    | Associate Chair for ACM SIGCHI Conference on Human Factors in Computing Systems   |

### Consultancy and Executive Experience

|             |  |
|-------------|--|
| 2023 - 2024 | Consultant on Task Network Modelling, DSO National Laboratories, Singapore |
|-------------|--|

### Research Interests

- Human-Computer Interaction (HCI)
- Cognitive Modelling
- User Experience (UX) Design

### Selected Publications

- Teo, L.-H., & Ang, G. W.-Y. (2018). Modelling the Effect of Time-on-Task Fatigue in Prolonged Driving. *Proceedings of the 16<sup>th</sup> International Conference on Cognitive Modelling* (pp. 168-173). Madison, WI: University of Wisconsin.
- Teo, L.-H., Chen, K., & Lee, K.-H. (2014). Extending the Flow Model to represent a large complex team using Sub-flow Models. *Proceedings of the 3<sup>rd</sup> Southeast Asian Network of Ergonomics Societies International Conference 2014*, Singapore.
- Teo, L., John, B. E., & Blackmon, M. H. (2012). CogTool-Explorer: a model of goal-directed user exploration that considers information layout. *SIGCHI Conference on Human Factors in Computing Systems (CHI 2012)*. ACM, New York, NY, USA, 2479-2488.
- Teo, L., & John, B. E. (2011). The Evolution of a Goal-Directed Exploration Model: Effects of Information Scent and GoBack Utility on Successful Exploration. *Topics in Cognitive Science*, 3: 154–165. [Siegel-Wolf Award for Best Applied Paper at the 10<sup>th</sup> International Conference on Cognitive Modelling]
- Teo, L. & John, B. E. (2008). Towards a Tool for Predicting Goal-directed Exploratory Behaviour. *Proceedings of the Human Factors and Ergonomics Society 52<sup>nd</sup> Annual Meeting* (pp. 950-954). Santa Monica, CA: Human Factors and Ergonomics Society.