

OTENG NTSWENG, PhD

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EDUCATION

Ph.D. in Information Systems NUS, Department of Information Systems & Analytics	Dec 2021
BSc (Hons) Computer Security, Staffordshire University	June 2012

RESEARCH INTERESTS

My research focuses on the optimal digital transformation of behavioral interventions, with a particular emphasis on health and education behaviors. I employ a mixed-methods approach, including psychophysiological (i.e., eye-tracking, electrodermal activity, and Electroencephalogram) and self-reported data.

PROFESSIONAL APPOINTMENTS

Clinical Assistant Professor Arizona State University (ASU), W.P. Carey School of Business	Present
Research Fellow NUS, Department of Information Systems & Analytics	2022-2024
PhD Scholar & Teaching Assistant NUS, Department of Information Systems & Analytics	2020-2022
PhD Scholar & Research Assistant NUS, Department of Information Systems & Analytics	2015-2019

TEACHING EXPERIENCE

<ul style="list-style-type: none">ASU, W.P. Carey School of Business Business Intelligence Problem-Solving and Actionable Analytics Business Process Management	Spring 2024 Spring 2024 Summer 2024
<ul style="list-style-type: none">NUS, Department of Information Systems and Analytics Introduction to Business Analytics	AY2021/22 (Sem 1) AY2020/21 (Sem 2) AY2020/21 (Sem 1)

Information Systems Innovations in Organizations & Society	AY2019/20 (Sem 2)
Information Systems Consulting (Masters)	AY2017/18 (Sem 2)
Information Security Policy and Management (Masters)	AY2016/17 (Sem 2)
Software Team Dynamics	AY2015/16 (Sem 1-2)

- **NUS, School of Continuing and Lifelong Education (Adult learners)**

Introduction to Business Analytics	AY2022/23 (Sem 2) AY2020/21 (Sem 2)
Building an Analytics Organization	AY2022/23 (Sem 1)
Professional, Ethical, & Social Issues in Computing	AY2018/19 (Sem 1)

WORKING PAPERS AND MANUSCRIPTS UNDER PREPARATION

Ntsweng, Oteng; Martin Kodyš; Ong Zhi Quan; Zhou Fang; Sharon Tan; Mounir Mokhtari. The Implementation and Integration of IoT Sensors in Elderly Care: A Normalization Process Theory Perspective, Target: *Journal of Medical Internet Research* [Manuscript available upon request, ***Under review***]

Xixian Peng; **Ntsweng Oteng.** Digital Doctors Evaluation: Investigating the Impact of the Communication Style on Conversational Agents Evaluation in Online Diagnosis, Target: *Technological Forecasting and Social Change* [Manuscript available upon request, ***Under review***]

Rasel Mamun; **Oteng Ntsweng;** Alsius David; Prince Baah-Peprah. The Role of Emotional Attachment and Perceived Usefulness in IPA Continuance Intention, Target: *AIS Transactions on Human-Computer Interaction* [Manuscript available upon request, ***Under review***]

Ntsweng, Oteng; Tan, Sharon, Teo Hock Hai. Examining the Conception of Gamefulness in the Context of Child-Computer Interaction: An Integrated Etic and Emic Approach, Target: *International Journal of Human-Computer Studies* [Manuscript available upon request, ***Submitting in April 2024***]

Ntsweng, Oteng; Tan, Sharon, Teo Hock Hai. Gamefulness as Desire and Enjoyment: Addressing the Ontological Overload in Current Conceptualizations, Target: *Decision Support Systems* [Manuscript available upon request, ***Submitting in May 2024***]

Ntsweng, Oteng; Xixian Peng. The Impact of Gamified Perceived Yield-Shift on Customer Satisfaction, Target: *MIS Quarterly/Information Systems Research* [***Completed two field experiments & currently designing a neuroIS experiment***]

AWARDS AND HONORS

Nominee & attendee: Conference on Health IT and Analytics Doctoral Consortium	2020
Singapore International Graduate Award. Ph.D. Full Funding Scholarship	2015
Botswana Government Tertiary Education Sponsorship. BSc Full Funding Scholarship	2007

GRANTS AND FELLOWSHIPS (Co-Investigator)

1. The Additive Effects of Reflective Practices and Gameful Learning on Flow and Cybersecurity Awareness
Source: SUNY Oneonta
Project Budget: USD1500
Project timeline: 2023- 2024 (ongoing project)
2. Enhancing Student Engagement in Online Learning: A Design Science Approach
Source: Ministry of Education, Singapore
Project budget: S\$250 000
Project timeline: 2022- 2025 (ongoing project)
3. Enhancing Adult Learning Using a Mobile Micro-Learning Platform with Integrated Nudging Interventions: A Design-Based Research Approach
Source: Institute for Adult Learning Singapore
Project budget: S\$300 000
Project timeline: 2019-2024 (ongoing project)
4. Evaluating E-learning Migration Strategies during Emergencies - A Framework toward Educational Resilience
Source: Centre for Teaching, Learning & Technology, NUS
Project budget: S\$15 000
Project timeline: 2022-2023 (completed project)

CONFERENCE ACTIVITY/PARTICIPATION

Shem Amalaya; **Oteng Ntsweng**; Alsius David; Rasel Mamum; Tshiamo Sigwele; Bonani Thela, "Users May be the Weakest Link, but Tell Them Nicely: The Effect of Minor Language Variations in Cybersecurity Communication," Decision Sciences Institute Annual Conference, November 2023, Atlanta, USA

Ntsweng, Oteng; Shem Amalaya; Alsius David; Rasel Mamum; Tshiamo Sigwele; Bonani Thela, "Does Context Matter? The Effect of AI Disclosure on Evaluations of Cybersecurity Documentations," Decision Sciences Institute Annual Conference, November 2023, Atlanta, USA

Ntsweng, Oteng; Ransome Bawack; Shem Amalaya; Xixian Peng, " Development of the Reflective User: The Additive Effects of Reflective Practices and Gameful Learning on Flow and Cybersecurity Awareness," IEEE International Symposium on Technology and Society (ISTAS23), September 2023, Swansea, United Kingdom

Ntsweng, Oteng; Sharon Tan; Oh, Lih-Bin; Weiquan Lu; Lek Hsiang Hui, "Contextualized Community of Inquiry Framework for Blended Learning Environments," International Society for the Scholarship of Teaching and Learning (ISSOTL), Nov 2022 (Co-authored the grant application and presented the work)

Sharon Tan; **Ntsweng, Oteng;** Oh, Lih-Bin; Weiquan Lu; Lek Hsiang Hui, " A Framework toward Educational Resilience," International Society for the Scholarship of Teaching and Learning (ISSOTL), Oct 2021 (Co-authored the grant application and presented the work)

Zaqoot, Wisam; **Ntsweng, Oteng;** Oh, Lih-Bin; and Ibrahim, Tengku Muhammad Hafidzuddin Tengku, "SnapLearning: A Design Framework for a Micro-Learning System to Enhance Adult Learning," Proceedings of the Twenty-Eighth Annual *the Pacific Asia Conference on Information Systems* (virtual), June 2020

Ntsweng, Oteng; Tan, Sharon, "Play Broadens Thought-Action Repertoires: Effects of Gaming Task Labelling on Meaningful Engagement," Proceedings of the Fortieth Annual *International Conference on Information Systems* (Munich, Germany), December 2019.

Ntsweng, Oteng; Ong Zhi Quan; Taani Iman; Asadullah Ahmad. "The Paradoxical Effects of Impression Management on Subsequent Health Choices," Proceedings of the Thirty-eighth Annual *International Conference on Information Systems* (Seoul, Korea), 2017 (**Nominated for Most Innovative Short Paper**)

Tan Sharon; **Ntsweng Oteng;** Ong Zhi Quan; Fang Zhou; Dong Ying Qui and Kai Luo., 2017. The Impact of Sensing Technologies on Multiple Stakeholders in the Elderly Ecosystem, *Conference on Health IT & Analytics (CHITA)* (Washington, DC), 2017

Tan Sharon; **Ntsweng Oteng;** Ong Zhi Quan; Fang Zhou; Dong Ying Qui and Kai Luo., 2017. Creating and Evaluating the Value of the Use of Internet of Things and Analytics for Home-Dwelling Elderly, *Informs Healthcare* (Netherlands, Rotterdam), 2017

Ntsweng, Oteng; Tan, Sharon. The Effects of Serious Games Genres and Frequency of Exposure on Children's Dietary Preferences, Proceedings of the Thirty-seventh Annual *International Conference on Information Systems* (Dublin, Ireland), 2016

PROFESSIONAL CONTRIBUTIONS AND ENGAGEMENTS

Associate Editor

Communications of the Association for Information Systems Journal	2023-2025
European Conference on Information Systems	2024
Asia Pacific Conference on Information Systems	2023

Track Chair

IEEE International Symposium on Technology and Society (ISTAS23)	2023
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Guest Reviewer

Journal of Management Information Systems	2022
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Journal of Medical Internet Research	2019-present
International Conference on Information Systems	2017-present
Pacific Asia Conference on Information Systems	2018-present
Americas Conference on Information Systems	2020-present

Department/ University Service

Consultation Work Scheme, Teaching Adult Learners	2018-present
Computing Research Week, Program Committee	2020
Graduate student representative	AY2017/18

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT COURSES

Applied Generative AI for Digital Transformation Massachusetts Institute of Technology, Professional Education	Ongoing
Digital Transformation Playbook: Leverage Technology to Innovate Your Business Stanford University, Graduate School of Business Executive Education	2023-2024
Program in Human Behavior Research: Emphasis on eye-tracking and electrodermal activity Imotions Academy, Singapore	2019
21st Century Data Analyst: Boosting Careers in Data Analysis & Data Science Sparkline, Singapore	2019

INDUSTRY WORK

Technical Support Executive, Fiber & ADSL Singtel project Scicom Msc Berhad, Malaysia	2012-2014
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PROFESSIONAL MEMBERSHIPS

Association for Information Systems (AIS), member since 2016
 AIS Women's Network, member since 2016
 IT in Health Care (SIG Health), member since 2016
 The International Society for the Scholarship of Teaching & Learning, member since 2021
 Toastmasters International, member since 2020