**Siong Meng Tay (Albert)**

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**EDUCATION**

2006 Doctor of Philosophy (Communication and Information Sciences), University of Hawaii, Manoa.

Interdisciplinary focus areas: Data Communication, Human-Computer Interaction, Management Information Systems, and Organizational Communication.

Dissertation Title: A Study of Coordination and Communication in Distributed Information Technology Support Work.

1993 Master of Science Degree (Decision and Information Systems), Arizona State University.

Master’s Applied Project Title: An Application Design in Object-Oriented Database Scheduling Application.

1992 Bachelor of Science Degree (Information Systems), Brigham Young University-Hawaii.

Graduated Magna Cum Laude.

**ACADEMIC EXPERIENCE**

2021 - Present Associate Teaching Professor, Information Technology and Cybersecurity, School of Technollogy, Ira A. Fulton College of Engineering, Brigham Young University. Provo, UT.

Developed and instruct Information Technology and Cybersecurity courses in Networking, Operating Systems, Information Assurance, and Senior Project Capstone.

* Oversight of Cybersecurity Research Lab (CSRL) and Research Assistants.
* Faculty Advisor for Cybersecurity Student Academic Association.
* Faculty Advisor for Network Engineering Club.

2011 - 2013 Assistant Professor, Division of Business and Information Management, Neumann University, Aston, PA.

Developed and instructed Computer Information Management courses like Introductions to Software Applications, Introduction to Programming, Database Management, Systems Analysis and Design, Web Development, and Data Communications and Networking.

* + - Developed CIM curriculum proposal, CIM course syllabus, program and course learning objectives, and assessment plans.
    - Designed and implemented Information Assurance Lab.
    - Received outstanding student evaluations for every semester taught.
    - Advised students in course selection as well as career decisions.
    - Participated in numerous communities, university, and professional service activities like high school outreach program, assessment committee, program evaluation, and decanal search committee.

2005 - 2011 Assistant Professor, Computer Information Systems Department, Idaho State University, Pocatello, ID.

* + - Developed, restructured, and instructed courses in Information Systems Problem Solving, Information Systems, Systems Analysis and Logical Design, and Human Computer Interaction.
    - Advised students in course selection as well as career decisions.
    - Received outstanding student evaluations for every semester taught.
    - Participated in numerous community, university, and professional service activities.

2001 - 2005 Instructor, Information Technology Management Department, University of Hawaii, Manoa, Honolulu, HI.

* + - Developed, restructured and instructed courses in Information Systems for Global Business Environment and Information Systems Analysis and Design.
    - Advised students in course selection as well as career decisions.
    - Received outstanding student evaluations for every semester taught.

1999 - 2001 Graduate Assistant, Department of Educational Technology, University of Hawaii, Manoa, Honolulu, HI.

“Preparing Tomorrow’s Teachers to Use Technology” Grant.

Organize and provide professional development in instructional technology to University faculty and Hawaii K-12 teachers through workshops, summer institutes, one-on-one sessions, cable TV, and the Internet.

1993 - 1994 Project Officer, Information Management Research Center, Nanyang Technological University, Singapore.

Set-up, operated, and maintained the Group Support Systems (GSS) facilities. Facilitated GSS sessions, tutored IS classes, and conducted research in Groupware, Business Teams, and Software Contracts.

1992 - 1993 Graduate Assistant, College of Education, Arizona State University, Tempe, AZ.

Designed and implemented graduate student database application for the College of Education.

1991 - 1991 Research Assistant, Department of Information Systems Computer Science, Brigham Young University-Hawaii, Laie, HI.

Conducted research in multimedia applications. Created tutorials and tutored both faculty and students on the use of multimedia applications.

**PROFESSIONAL EXPERIENCE**

2014 – 2021 Utah Data Alliance (UDA) Grant Manager/Project Director, Utah State Board of Education.

Lead and administer Utah’s statewide longitudinal data system and program linking data from preschool through K12, postsecondary and the workforce.

* Worked with executive officers from Utah State Board of Education, Utah System of Higher Education, Utah System of Technical Colleges, Department of Workforces Services, Utah Department of Health, Utah Education and Telehealth Network, and Utah Education Policy Center.
* Led the Statewide Longitudinal Data System (SLDS) program in Utah.
* Led and mentor researchers in research, data analytics, and visualization work.
* Oversight of financial/budgetary, technical, and administrative oversight of UDA’s day-to-day operations.
* Created policies and procedures for UDA’s operations.
* Liaised and coordinated partner agencies’ research activities.
* Provided reports to Governor’s Office, State Legislature and stakeholders. Testify before legislative committees.
* Applied and received U.S. Department of Education IES SLDS FY ’15 grant ($6.7 million). Project Director for the IES SLDS FY ‘15 Grant.

1997 – 1999 Infrastructure & Operations Manager, Adaptec Manufacturing Pte. Ltd.

* Managed the IT Infrastructure, Computer Operations, and Helpdesk groups.
* Provided IT support to local offices, factory, and regional offices.
* Major projects included coordinating and managing IT requirements and implementation for new manufacturing and office facilities and enterprise-wide implementation of SAP ERP system.

1995 - 1997 Systems Engineer, Singapore American School.

Managed Voice, Video and Data (VVD) project for the new Singapore American School campus.

VVD project included: IT Infrastructure, PABX, Video Retrieval, Public Address, Clocks and Library systems.

1995 - 1995 Systems Manager, Koeneman Capital Management Pte. Ltd.

Administered MIS department supporting fund management activities.

Planned, operated, and maintained the systems that supported the research and fund managing activities of the company.

1994 - 1995 MIS Coordinator, Applied Materials South East Asia Pte. Ltd.

Administered MIS department supporting sales and customer support activities.

Developed local policies and procedures for LAN/WAN system maintenance, control and performance evaluation. Participated in enterprise-wide projects that included SAP implementation and upgrading of network infrastructure.

1991 - 1992 Network Administrator*,* Division of Continuing Education, Brigham Young University-Hawaii.

Supervised and provided support for Novell and IBM AIX networks.

1989 -1991 Technician, Sound and Stage Services, Brigham Young University-Hawaii.

Light and sound board operator for all types of stage performance.

1986 -1988 Missionary, The Church of Jesus Christ of Latter-day Saints, Singapore Mission.

Church volunteer ministering and administering to the people in the assigned areas of Singapore, Malaysia, India, and Sri Lanka.

1984 – 1986 Logistics Specialist, Singapore Armed Forces, Singapore.

Support battalion’s logistics officer in logistic needs of the unit.

**RESEARCH INTERESTS**

* Technology Adoption and its impact on an organization
* Software Development and Support
* Human-Computer Interaction and Interface Design
* Information Assurance
* Statewide Longitudinal Data Systems

**PUBLICATIONS**

**Refereed Journal Publications**

* Tay, A.S.M. (2012). The Need for Qualitative Methods in Undergraduate IS Education. *Journal of Issues in Informing Science and Information Technology*, 9, 105-14.
* Tay, A.S.M. (2010). IT Service and Support: What To Do With Geographically Distributed Teams? *Journal of Issues in Informing Science and Information Technology*, 7, 145-59.
* Tay, A.S.M. and Trimmer, K. (2009). Effective Information Technology Support in a Distributed and Culturally Diverse Environment. *Business System Journal*, 1(2), 97-105.
* Parker, K., Williams, R., Nitse, P., and Tay, A.S.M. (2009). The Impact of Inaccurate Color on Customer Retention and CRM. *International Journal of an Emerging Transdiscipline*, 12, 105-22.
* Parker, K., Williams, R., Nitse, P., and Tay, A.S.M. (2008). Use of the Normalized Word Vector Approach in Document Classification for an LKMC. *Journal of Issues in Informing Science and Information Technology*, 5, 513-24.

**Other Publications**

* Geverdt, D., Mackay, D., Tay, A.S.M., Meyer, G. (2020). Geocoded Visualizations and Tools Used to Create Them. SLDS Issue Brief, National Center for Education Statistics, U.S. Department of Education, June.
* Armstrong, C., Gosa, K., McGrew, C., Patton, J., Ream, D., and Tay, A.S.M. (2020). SLDS IRB Requirements. *SLDS Issue Brief, National Center for Education Statistics, U.S. Department of Education,* May.
* Cottrell, S., Seller, J., Gray, E., Lemke, R., Tay, A.S.M., and Solari, J. (2020). How to Engage and Train Stakeholders Regarding Privacy and Security Best Practices. *SLDS Issue Brief, National Center for Education Statistics, U.S. Department of Education,* January.

**Refereed Conference Papers**

* Tay, A.S.M. (2012). The Need for Qualitative Methods in Undergraduate IS Education. *Informing Science + IT Education Conference*, Montreal, Canada: June 22-27.
* Tay, A.S.M. (2010). IT Service and Support: What To Do With Geographically Distributed Teams? *Informing Science + IT Education Conference*, Cassino, Italy: June 19-24.
* Tay, A.S.M. (2009). Case: Technology Adoption Gone Wrong*. Proceedings of the Fifteenth Americas Conference on Information Systems*, San Francisco, California August 6-9.
* Tay, A.S.M. (2009). Networking in Distributed Work Environment: Online or Traditional? *Proceedings of the Academy of Information and Management Sciences*, New Orleans, LA: April 8-10.
* Tay, A.S.M. and Trimmer, K. (2008). Providing Effective IT Support: Evidence from Two Firms. *Proceedings of the Academy of Information and Management Sciences*, Reno, Nevada: October 15-17.
* Tay, A.S.M. (2008). IGF: Technology Adoption. *Proceedings of the North American Case Research Association (NACRA) 2008 Annual Meeting*, Durham, New Hampshire: October 30-November 1.
* Tay, A.S.M. (2008). Communication and Ties in Distributed Work. *Proceedings of the 14th Americas Conference on Information Systems*, Toronto, Ontario, Canada: August 14-17.
* Tay, A.S.M. (2007). Universal Usability. *Proceedings of the North American Case Research Association (NACRA) 2007 Annual Meeting*, Keystone, Colorado: October 18-20.
* Tay, A.S.M. (2004). Understanding Communication and Coordination in Global Teamwork: A Study of Globally Distributed Information Technology Support. Doctoral Consortium, *Proceedings of the 10th Americas Conference on Information Systems*, New York, New York: August 6-8.
* Davidson, E. J., and Tay, A.S.M. (2003). Studying Teamwork in Global IT Support. *Proceedings of the 36th Hawaii International Conference on System Sciences*. Waikoloa, Hawaii: January 6-9.
* Sharma, R.S., Tung, L.L., Goh, W.B., Foo, S., and Tay, A.S.M. (1994). A Framework for the Design and Implementation of Groupware: In Search of a Philosopher's Stone? *Proceedings of the IEEE Conference on Systems, Man and Cybernetics*, San Antonio, Texas: October 2-5.
* Sharma, R.S., Goh, W.B., Foo, S., Tung, L.L., Cheah, S.L., and Tay, A.S.M. (1994). A Short Note on Groupware. *SCSNet* Jun/Jul (3).

**PRESENTATIONS**

* Tay, A.S.M. and Howe, C. (2019). From PEN to Legislation. 2019 SLDS Best Practices Conference. Arlington, Virginia: February 27 - March 1.
* Tay, A.S.M., and Brough, A. (2018). Experience and lessons learned: Employing data visualization tools. 2018 SLDS Best Practices Conference. Arlington, Virginia: March 1-2.
* Tay, A.S.M. and Glenn, C. (2017). Native American Students Graduation Rate. 2017 SLDS Best Practices Conference. Arlington, Virginia: February 13-15.
* Tay, A.S.M. (2017). Researchers Meeting and IRB. 2017 SLDS Best Practices Conference. Arlington, Virginia: February 13-15.
* Tay, A.S.M. (2017). Utah Inter-Generational Poverty Report. 2017 SLDS Best Practices Conference. Arlington, Virginia: February 13-15.

**WEBINARS/PANELIST**

* Tay, A.S.M., Mackay, D., Meyer, G., Geverdt, D., Watson, J. Geocoded Visualizations and Tools Used to Create Them. National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education, June 22, 2020.

**TEACHING INTERESTS**

* Computer Security/Information Assurance
* Database
* Human-Computer Interaction and Interface Design
* Information Technology
* Management of Information Systems
* Networks and Telecommunication
* Systems Analysis and Design

**COURSES TAUGHT**

**Brigham Young University**

Fall 2021

* IT&C 344, Operating Systems
* IT&C 347, Computer Networks
* IT&C 446, Senior Project /Capstone 1
* IT&C 695R, Special Topics

Winter 2022

* IT&C 199R, Academic Internship
* IT&C 291R, Seminar
* IT&C 366, Information Assuarance and Security
* IT&C 447, Senior Project /Capstone 2

**Neumann University**

* INT 101, The Neumann Experience
* CIM 102, Introduction to Software Applications
* CIM 201, Introduction to Computer Programming with Visual Basic.net/Java
* CIM 340, Database Management
* CIM 345, Web Development
* CIM 350, Systems Analysis and Design
* CIM 360, Data Communications and Networking
* CIM 411, Information Assurance & Security
* CIM 511, Information Assurance & Security

**Idaho State University**

* CIS 300, Information Systems Problem Solving
* CIS 301, Information Systems Problem Solving
* CIS 302, Information Systems
* CIS 403, Systems Analysis and Logical Design
* CIS 491, Human Computer Interaction
* CIS 492, Special problems in Computer Information Systems
* CIS 503, Systems Analysis and Logical Design
* CIS 592, Special problems in Computer Information Systems

**University of Hawaii, Manoa**

* ITM 353, Information Systems Analysis & Design
* BUS 311, Information Systems for Global Business Environment

**AWARDS & HONORS**

* AMCIS Doctoral Consortium, 2004.
* Finalist for Francis Davis Teaching Award, University of Hawaii, Manoa, 2004.
* Center for International Business Education & Research (CIBER) Grant, Summer 2002.
* Dean's List, BYU-Hawaii (1989-92).
* National Dean's List (1989-92).
* Advance Undergraduate Studies in Business Scholarship, BYU-Hawaii (1991-92).
* Who's Who Among International Students in American Universities and Colleges (1991).

**PROFESSIONAL & ACADEMIC AFFILIATIONS**

* Alpha Chi
* Association for Information Systems
* Informing Science Institute
* North American Case Research Association

**SERVICE**

* Dissertation Committee Chair and Dissertation Committee Member for Educational Leadership Doctoral Program, Neumann University.
* Member of Neumann University Learning Outcome and Assessment Committee.
* Member of Neumann University Faculty Development Committee.
* Member of Neumann University Arts and Sciences Decanal Search Committee.
* Member of Neumann University Business and Information Management Decanal Search Committee.
* Member of Neumann University Criminal Justice Faculty Search Committee.
* Member of Neumann University Criminal Justice Program Review Committee.
* Session Chair, Informing Science + IT Education Conference, Montreal, Canada: June 22-27, 2012.
* Session Chair, 15th Americas Conference on Information Systems, San Francisco, California August 6-9, 2009.
* Information Systems Track Chair, 50th Mountain Plains Management Conference, Pocatello, Idaho, October 8-10, 2008.
* Member of ISU Google Implementation Advisory Group.
* Member of ISU Geospatial Coordinating Committee.
* Member of ISU Student Conduct Board.
* Member of ISU College of Business Technology Committee.
* New Faculty Mentor (ISU).
* Coordinator for Research Day Activities for College of Business, 2007 (ISU).
* Served as Advisor during Incoming Freshmen Orientation and Advising (ISU).
* IT Consultant to local businesses.
* Manuscript reviewer for ICIS, HICSS, AMCIS, Informing Science Institute, Information System Management, Mountain Plain Management Conference, NACRA, and CAIS.