

Dapeng Liu

Ph.D., Assistant Professor

Department of Information Systems and Business Analytics

Hankamer School of Business | Baylor University

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HIGHLIGHTS

- Publications in “Basket of 8” Journals: *J AIS* and *EJIS*
- *EJIS Outstanding Contribution in Reviewing Award*
- UNSW Business School 2021 Research Excellence Award (Junior Faculty)
- Editorial Review Board Member of the *International Journal of Information Management* and *Journal of Database Management*
- Certified *Python Programming Associate*, *IBM Cybersecurity Analyst*, *Google Cloud Security Professional*, and *IBM Data Science Professional*
- Mini-track Chair for the Americas Conference on Information Systems and the Hawaii International Conference on System Sciences

EDUCATION

Ph.D.	Business (Information Systems)	Virginia Commonwealth University	2019
M.S.	Economics (International Trade)	Shandong University	2013
MBA	Business Administration	Missouri State University	2012
B.S.	Computer Science and Technology	Shandong University	2007

HIGHER EDUCATION EXPERIENCE

- Assistant Professor, Baylor University, United States.
- Lecturer, UNSW Sydney, Australia. 2019-2022
- Instructor, Virginia Commonwealth University, United States. 2017-2019
- Teaching Assistant, Virginia Commonwealth University, United States. 2015-2019

PUBLICATIONS AND SCHOLARLY WORK

Peer-Reviewed Journal Articles

1. Carter, L., Yoon, V., & **Liu, D.** (2022). Analyzing e-government design science artifacts: A systematic literature review. *International Journal of Information Management*, 62, 102430. doi: 10.1016/j.ijinfomgt.2021.102430
2. Lin, J., Carter, L., & **Liu, D.** (2021). Privacy concerns and digital government: Exploring citizen willingness to adopt the COVIDSafe App. *European Journal of Information Systems*, 30(4), 389-402. doi: 10.1080/0960085X.2021.1920857
3. Li, Y., Thomas, M., & **Liu, D.** (2021). From semantics to pragmatics: Where IS can lead in natural language processing research. *European Journal of Information Systems*, 30(5), 569-590. doi:10.1080/0960085X.2020.1816145

4. **Liu, D.**, Etudo, U., & Yoon, V. (2020). X-IM framework to overcome semantic heterogeneity across XBRL filings. *Journal of the Association for Information Systems*, 21(4), 971-1000. doi:10.17705/1jais.00626
5. **Liu, D.**, & Weistroffer, H. R. (2020). Statistically significant! But is trust of practical significance? *Journal of Computer Information Systems*. doi:10.1080/08874417.2020.1783723
6. Carter, L., **Liu, D.**, & Cantrell, C. (2020). Exploring the intersection of the digital divide and artificial intelligence: A hermeneutic literature review. *AIS Transactions on Human-Computer Interaction*, 12(4), 253-275. doi:10.17705/1thci.00138. **SIGGTM best paper nominee**
7. Etudo, U., Yoon, V., & **Liu, D.** (2017). Financial concept element mapper (FinCEM) for XBRL interoperability: Utilizing the M3 Plus method. *Decision Support Systems*, 98, 36-48. doi:10.1016/j.dss.2017.04.006

Book Chapter

1. Thomas, M. A, Diya, A., & **Liu, D.** (2020). An Assessment of Federated Machine Learning for Translational Research: Federate Machine Learning. In *Handbook of Research on Interdisciplinary Approaches to Digital Transformation and Innovation*.

Refereed Conference Proceedings

1. **Liu, D.**, & Yoon, V. (2019, January). Leveraging indexical pragmatics (OFIP) for search engine: an ontology-based approach. In *Proceedings of the 52nd Hawaii International Conference on System Sciences (HICSS)*.
2. Carter, L., & **Liu, D.** (2018, December). Technology humanness, trust and e-government adoption. In *Proceedings of the 29th Australasian Conference on Information Systems (ACIS)*.
3. Carter, L., Cantrell, C. & **Liu, D.** (2018, December). Exploring the digital divide in the era of artificial intelligence: A socio-technical view. *Pre-ICIS Workshop on E-Government*.
4. **Liu, D.**, & Carter, L. (2018, May). Impact of citizens' privacy concerns on e-government adoption. In *Proceedings of the 19th Annual International Conference on Digital Government Research: Governance in the Data Age, Delft*. ACM.
5. Thomas, M. A, Diya, A., & **Liu, D.** (2018, August). Federated machine learning for translational research. In *Proceedings of the 24th Americas Conference on Information Systems (AMCIS)*, New Orleans.
6. **Liu, D.** (2018). An Ontology-Driven Framework Leveraging Contextual Pragmatics (ODCP) for domain-specific information retrieval. *Workshop on Information Technologies and Systems (WITS)*, Seoul. **Best paper nominee**
7. **Liu, D.**, Li, Y., & Thomas, M. A. (2017, January). A roadmap for natural language processing research in information systems. In *Proceedings of the 50th Hawaii International Conference on System Sciences (HICSS)*. **Best paper nominee for mini-track**
8. **Liu, D.**, & Roland Weistroffer, H. (2017, August). Is system quality irrelevant to system use? A literature review of the relationship between system quality and system use. In *Proceedings of the 23rd Americas Conference on Information Systems (AMCIS)*, Boston.
9. **Liu, D.**, & Roland Weistroffer, H. (2016, March). A look at online targeted advertising in information systems research. (2016). In *Proceedings of the 13th SAIS*.

COURSES TAUGHT

Lecturer (Assistant Professor), School of ISTM, UNSW Sydney (2019—2022)

- Faculty Course Development: Coding for Business Term 2 2022
- ZZBU6511 Predictive Analytics (with *R*) Term 2 2022
- ZZBU6511 Predictive Analytics (with *R*) Term 3 2021
- COMM1822 Introduction to Databases for Business Analytics Term2 2021
- INFS1603 Introduction to Business Databases Term2 2021
- Tutorial W18A for COMM1822 Introduction to Databases for Business Analytics Term2 2021
- ZZBU6511 Predictive Analytics (with *SAS*) Term1 2021
- INFS1603 Introduction to Business Databases Term2 2020
- COMM1822 Introduction to Databases for Business Analytics Term2 2020
- INFS1603 Introduction to Business Databases Term1 2020
- Tutorial W17B for INFS1603 Introduction to Business Databases Term1 2020

Instructor, Department of Information Systems, VCU (2017-2019)

- INFO691 Text Mining and Ontology (with Python) Spring 2019
- INFO610 Analysis and Design of Database Systems Spring 2019
- INFO644 Principles of Computer and IS Security Fall 2018
- INFO610 Analysis and Design of Database Systems Spring 2018
- INFO610 Analysis and Design of Database Systems Fall 2017
- INFO610 Analysis and Design of Database Systems Spring 2017

Teaching Assistant, Department of Information Systems, VCU (2015-2018)

- INFO610 Analysis and Design of Database Systems Fall, 2018
- INFO364 Database Systems Fall, 2018
- INFO691 Big Data Analytics Spring 2018
- INFO364 Database Systems Fall 2017
- INFO610 Analysis and Design of Database Systems Spring 2017
- INFO646 Security Policy Formulation & Implementations Spring 2017
- INFO644 Principles of Computer and IS Security Fall 2016
- INFO364 Database Systems Fall 2016
- INFO610 Analysis and Design of Database Systems Spring 2016
- INFO364 Database Systems Spring 2016

INDUSTRY EXPERIENCE

- Beijing Talent and Leadership Development Institute, Senior Data Analyst and Database Administrator
Beijing, China, 2013-2014
 - Leadership assessment and analysis
 - Assessment tool development
 - Leadership data management
- Securities Research Centre at Zhongtai Securities, Data Analyst (Intern) Jinan, China, 2013
 - Investment Analysis

FUNDING

- UNSW ISTM Research Development Funding Scheme (\$10000) 2022
- UNSW ISTM Research Performance Funding Scheme (\$2500) 2022
- UNSW Business School Annual Research Fund (ARF) (\$5000) 2022
- UNSW Business School Annual Research Fund (ARF) (\$5000) 2021
- UNSW Business School Annual Research Fund (ARF) (\$1250) 2019
- UNSW ISTM Start-up Fund (\$3000) 2019
- Microsoft Azure Research Award for NLP project (\$20000) 2016
- Conference of Cybersecurity Education, Research and Practice (CCERP) Award (\$1500) 2016

AWARDS

- EJIS Outstanding Contribution in Reviewing Award 2021
- UNSW Business School Research Excellence Award (Junior Faculty) 2021
- Dean's Scholar at VCU 2019
- Korea Advanced Institute of Science and Technology (KAIST) Award for WITS2018 2018

ACADEMIC SERVICE

Editorial Board Member

- International Journal of Information Management 2020-present
- Journal of Database Management 2020-present
- Journal of Computer Information Systems 2021-present

Conference Mini-track Chair

- Hawaii International Conference on System 2023
 - Mini-track: AI in Government
- Americas Conference on Information Systems 2022
 - Mini-track: Digital Government and Civic Engagement

Conference AE/PC Member

- International Conference on Information Systems (ICIS)/AE 2022
- Pacific Asia Conference on Information Systems (PACIS)/AE 2022
- Pacific Asia Conference on Information Systems (PACIS)/AE 2021
- Workshop on Information Security and Privacy (WISP) 2021
- Australasian Conference on Information Systems (ACIS) 2021
- Annual International Conference on Digital Government Research (dg.o) 2021
- Australasian Conference on Information Systems (ACIS) 2020
- Bright Internet Global Summit @ Munich 2019
- International Conference on Theory and Practice of Electronic Governance (ICEGOV) 2019
- Workshop on Information Technologies and Systems (WITS) 2019
- International Conference on Theory and Practice of Electronic Governance (ICEGOV) 2018
- Annual International Conference on Digital Government Research (dg.o) 2018

Journal Reviewer

- Information Systems Research 2022
- Decision Support Systems 2022
- European Journal of Information Systems 2022
- Frontiers in Psychology 2022
- Journal of Database Management 2022
- Journal of the Association for Information Systems 2021
- European Journal of Information Systems 2021
- Information Systems Journal 2021
- International Journal of Information Management 2021
- Telematics and Informatics 2021
- Information Systems Frontiers 2021
- Government Information Quarterly 2021
- Journal of the Computer Information Systems 2021
- European Journal of Information Systems 2020
- Journal of Information Technology 2020
- International Journal of Information Management 2020
- Journal of Information Technology 2019
- Journal of Theoretical and Applied Electronic Commerce Research 2018
- Journal of the Association for Information Systems 2018

Other Service

- UNSW MCOM Specialization Revitalization Coordinator 2022
- UNSW ISTM Research Seminar Coordinator 2022
- UNSW Honors Student Supervisor/Co-supervisor (Jiesen, Lin; Kiran Kumar) 2020-2021
- Early Career Academic Network (ECAN) Administrative Committee Member, UNSW 2019-2022
- UNSW Co-op Program Mentor, UNSW 2019-2022
- PG Research Reviewer, School of ISTM, UNSW 2019-2022
- AMCIS Volunteer 2017
- IT Chief, Chinese Students and Scholars Association (CSSA), VCU 2016-2017

Member

- Association for Information Systems (AIS) Summer2016–present

CERTIFICATIONS

- IBM Cybersecurity Analyst Professional Certificate IBM via Coursera
Year of issue: 2021
Professional Certification No.: 4TQLTYWFBQAZ
- IBM Data Science Professional Certificate IBM via Coursera
Year of issue: 2020
Professional Certification No.: WYBKQ2HE6W3X
- Google Cloud Security Professional Certificate Google via Coursera
Year of issue: 2020
Professional Certification No.: ZPP6RRASPHR
- Associate in Python Programming Certificate Python Institute
Year of issue: 2020

Validation ID: 585569715 Certification Code: iZvg.nfRL.SMAT

PROFESSIONAL DEVELOPMENT TRAINING

- Decision-Making Strategies, LinkedIn 2021
- Foundations of University Learning and Teaching 1: Student Learning & Teaching, UNSW 2021
- Foundations of University Learning and Teaching 2: Educational Design, UNSW 2021
- Foundations of University Learning and Teaching 3: Assessment and Feedback, UNSW 2021
- Foundations of University Learning and Teaching 4: Reflection and Evaluation, UNSW 2021
- Cybersecurity Roles, Processes & Operating System Security (passed), Coursera 2021
- Cybersecurity Compliance Framework & System Administration (passed), Coursera 2021
- Network Security & Database Vulnerabilities (passed), Coursera 2021
- Penetration Testing, Incident Response and Forensics (passed), Coursera 2021
- Cyber Threat Intelligence (passed), Coursera 2021
- Cybersecurity Capstone: Breach Response Case Studies (passed), Coursera 2021
- Managing Security in Google Cloud Platform (passed), Coursera 2020
- Security Best Practices in Google Cloud (passed), Coursera 2020
- Google Cloud Platform Fundamentals: Core Infrastructure (passed), Coursera 2020
- Mitigating Security Vulnerabilities on Google Cloud Platform (passed), Coursera 2020
- Networking in Google Cloud: Defining and Implementing Networks (passed), Coursera 2020
- Networking in Google Cloud: Hybrid Connectivity and Network Management (passed), Coursera 2020
- Hands-On Labs in Google Cloud for Security Engineers (passed), Coursera 2020
- Applied Data Science Capstone (passed), Coursera (passed), Coursera 2020
- Tools for Data Science (passed), Coursera 2020
- Databases and SQL for Data Science (passed), Coursera 2020
- Data Visualization with Python (passed), Coursera 2020
- Machine Learning with Python (passed), Coursera 2020
- Data Analysis with Python (passed), Coursera 2020
- Python for Data Science and AI (passed), Coursera 2020
- Data Science Methodology (passed), Coursera 2020
- CIORWD-Report Wrongdoing Course, UNSW 2019
- PADISC-Disclosure of Interests, UNSW 2019
- SMA&R-Sexual Misconduct Awareness, UNSW 2019
- Teaching Online at UNSW, UNSW 2019
- URI001-UNSW Research Integrity for Staff, UNSW 2019

SAFETY SKILLS TRAINING

- Back Injury Prevention, Baylor University 2022
- Baylor Active Shooter Training, Baylor University 2022
- Baylor DPS Emergency Action Guide, Baylor University 2022
- Baylor Emergency Action Plan, Baylor University 2022
- Baylor Fire Prevention Plan, Baylor University 2022

- Fire Safety on Campus, Baylor University 2022
- General Safety Orientation, Baylor University 2022
- Slips/Trips/Falls, Baylor University 2022
- HSEAWA-Work Health & Safety Awareness, UNSW 2019
- HSEEMT-Ergonomic & Manual Tasks, UNSW 2019
- HSEOSO-Managing Health and Safety, UNSW 2019

SPECIALIZED SKILLS

- Programming and data analytics: Python, JAVA, R
- Database: Oracle, MongoDB, Postgresql
- Statistics: JMP, SPSS, SmartPLS
- Design and data analytics: Rapidminer, Tableau
- Semantic web: Protégé, JENA, GraphDB
- OS/Platform: Ubuntu, CentOS, IBM Bluemix, Azure, AWS