

# Yu-Kai Lin

Assistant Professor

Department of Computer Information Systems · Robinson College of Business · Georgia State University

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## Employment

2017–Present	Assistant Professor	Georgia State University, Robinson College of Business	Atlanta, GA
2015–2017	Assistant Professor	Florida State University, College of Business	Tallahassee, FL
2010–2015	Research Associate	University of Arizona, Artificial Intelligence Lab	Tucson, AZ

## Education

- Ph.D. Eller College of Management, Department of Management Information Systems  
University of Arizona, 2015  
*Major:* Management Information Systems  
*Minor:* Economics  
*Dissertation:* Health Analytics and Predictive Modeling: Four Essays on Health Informatics  
(Committee: Hsinchun Chen, Paulo Goes, Mingfeng Lin)
- M.B.A. College of Technology Management, Institute of Technology Management  
National Tsing Hua University, 2006
- B.B.A. College of Business, Department of Information Management  
Chung Yuan Christian University, 2004

## Research

- **Domains:** Artificial Intelligence, Open Collaboration and Innovation, Intellectual Property, Health IT
- **Methods:** Econometric Modeling, Machine Learning, Unstructured Data Analytics

### PUBLISHED AND ACCEPTED ARTICLES

1. Yu-Kai Lin\*, Arun Rai\*, and Yukun Yang\* (forthcoming) "Information Control for Creator Brand Management in Subscription-Based Crowdfunding," *Information Systems Research* (\* equal authorship)
2. Yu-Kai Lin and Likoebe Maruping (forthcoming) "Open Source Collaboration in Digital Entrepreneurship," *Organization Science*
3. Yu-Kai Lin and Xiao Fang (forthcoming) "First, Do No Harm: Predictive Analytics to Reduce In-Hospital Adverse Events," *Journal of Management Information Systems*
4. Yu-Kai Lin, Mingfeng Lin, and Hsinchun Chen (2019) "Do Electronic Health Records Affect Quality of Care? Evidence from the HITECH Act," *Information Systems Research* (30:1), pp. 306–318.
5. Yu-Kai Lin, Hsinchun Chen, Randall Brown, and Shu-Hsing Li. (2017) "Healthcare Predictive Analytics for Risk Profiling in Chronic Care: A Bayesian Multitask Learning Approach," *MIS Quarterly* (41:2), pp. 473-495.
6. Yu-Kai Lin, Hsinchun Chen, Randall A Brown, Shu-Hsing Li, and Hung-Jen Yang. (2014) "Time-to-Event Predictive Modeling for Chronic Conditions Using Electronic Health Records," *IEEE Intelligent Systems* (29:3), pp. 14-20.

7. Yu-Kai Lin, Hsinchun Chen, and Randall A. Brown. (2013) "MedTime: A Temporal Information Extraction System for Clinical Narratives," *Journal of Biomedical Informatics* (46), pp. S20-S28.

#### WORK IN PROGRESS AND WORKING PAPERS

1. Patent Protection and Software Innovation: Evidence from Alice (with Arun Rai; under review at *Information Systems Research*) [[SSRN](#)]
2. Toward a Better Understanding of AI Innovations: Evidence from U.S. Patents (with Likoebe Maruping) [[SSRN](#)]

#### CONFERENCE PAPERS AND PRESENTATIONS

1. Patent Protection and Software Innovation: Evidence from Alice (with Arun Rai); *The 2021 Workshop on Information Systems Economics (WISE 2021)*
2. Toward a Better Understanding of AI Innovations (with Likoebe Maruping); *The 2021 Conference on Information Systems and Technology (CIST 2021)*
3. Toward a Better Understanding of AI Innovations (with Likoebe Maruping); *The 2020 Workshop on Information Technologies and Systems (WITS 2020)* – **Best Paper Nomination**
4. Restricting the Scope of Software Patent Protection: Beneficial Evidence of Alice (with Arun Rai); *The 2020 INFORMS Conference on Information Systems and Technology (CIST 2020)*
5. Open Source Collaboration in Digital Ventures (with Likoebe Maruping); *The 2020 INFORMS Conference on Information Systems and Technology (CIST 2020)*
6. Getting Behind Closed Doors: Developing Fan Engagement in Subscription-Based Crowdfunding (with Arun Rai and Yukun Yang); *The 2019 Workshop on Information Systems and Economics (WISE 2019)*
7. Getting Behind Closed Doors: Developing Fan Engagement in Subscription-Based Crowdfunding (with Arun Rai and Yukun Yang); *The 2019 INFORMS Conference on Information Systems and Technology (CIST 2019)*
8. A Prediction Model for Adverse Events in Hospitalized Patients (with Xiao Fang); *The 2018 INFORMS Conference (INFORMS 2018)*
9. First, Do No Harm: Predictive Analytics for Risks of In-Hospital Adverse Events (with Xiao Fang); *The 2017 INFORMS Data Science Workshop (DS 2017)*
10. Differentiating the Impacts of Adoption and Use on Organizational Performance: The Case of Electronic Health Records (with Mingfeng Lin and Hsinchun Chen); *The 2017 Winter Conference on Business Analytics (WCBA 2017)*
11. Healthcare Predictive Analytics for Risk Profiling in Chronic Care: A Bayesian Multitask Learning Approach (with Hsinchun Chen, Randall Brown, Shu-Hsing Li, and Hung-Jen Yang); *The 2017 Winter Conference on Business Analytics (WCBA 2017)*
12. To Join or To Take Over: External Corporate Ventures and the Choice between Investment and Acquisition in the IT Industry (with Mingfeng Lin and Xinlin Tang); *The 2016 Workshop on Information Systems Economics (WISE 2016)*
13. Bayesian Multi-Task Learning for Risk Profiling in Chronic Care (with Hsinchun Chen, Randall Brown, Shu-Hsing Li, and Hung-Jen Yang); *The 2015 INFORMS Healthcare Conference*
14. Beyond Adoption: Does Meaningful Use of EHR Improve Quality of Care? (with Mingfeng Lin and Hsinchun Chen); *The 2014 Workshop on Information Systems Economics (WISE 2014)*
15. Healthcare Analytics and Clinical Intelligence: A Risk Prediction Framework for Chronic Care (with Hsinchun Chen, Randall Brown, Shu-Hsing Li, and Hung-Jen Yang); *The 2014 Workshop on Information Technologies and Systems (WITS 2014)* – **Best Paper Nomination**
16. Predictive Analytics for Chronic Care: A Time-to-Event Modeling Framework using Electronic Health Records (with Hsinchun Chen, Randall Brown, Shu-Hsing Li, and Hung-Jen Yang); *The 2014 INFORMS Conference on Information Systems and Technology (CIST 2014)*

17. Beyond Adoption: Does Meaningful Use of EHR Improve Quality of Care? (with Mingfeng Lin and Hsinchun Chen); *The 2014 INFORMS Conference on Information Systems and Technology (CIST 2014)*
18. Beyond Adoption: Does Meaningful Use of EHR Improve Quality of Care? (with Mingfeng Lin and Hsinchun Chen); *The 5th Annual Workshop on Health IT and Economics (WHITE 2014)*
19. MedTime: A Temporal Information Extraction System for Clinical Narratives (with Randall A. Brown, and Hsinchun Chen); *The 2012 izb2 Workshop*
20. Automatic Learning of A Supervised Classifier for Patent Prior Art Retrieval (with Hung-Chen Chen, Chih-Ping Wei, and Chin-Sheng Yang); *The 2010 Pacific Asia Conference on Information Systems (PACIS 2010)*
21. Exploiting Item Heterogeneity for Collaborative Filtering Recommendation (with Hung-Chen Chen, Chih-Ping Wei, and Ying-Siou Dai); *The 4th China Summer Workshop on Information Management (CSWIM 2010)*
22. Deriving Technology Roadmaps with Tech Mining Techniques (with Fu-Ren Lin, Chih-Ping Wei, and Yu-Liang Shyu); *The 2008 Pacific Asia Conference on Information Systems (PACIS 2008)*

## INVITED PRESENTATIONS

- Southern University of Science and Technology, Department of Information Systems and Management Engineering, November 2021 (scheduled): *Patent Protection and Software Innovation: Evidence from Alice*
- Auburn University, Department of Systems and Technology, November 2020: *Patent Protection and Software Innovation: Evidence from Alice*
- ETH Zurich, MIS seminar, December 2019: *First, Do No Harm: Predictive Analytics to Reduce In-Hospital Adverse Events*
- University of Georgia, Department of Management Information Systems, April 2019: *Getting Behind Closed Doors: Developing Fan Engagement in Subscription-Based Crowdfunding*
- Georgia State University, Department of Computer Information Systems, March 2017: *Healthcare Predictive Analytics for Risk Profiling in Chronic Care: A Bayesian Multitask Learning Approach*
- Florida State University, Department of Entrepreneurship, Strategy, and Information Systems, January 2015: *Beyond Adoption: Does Meaningful Use of EHR Improve Quality of Care?*
- Indiana University, Operations and Decision Technologies Department, December 2014: *Beyond Adoption: Does Meaningful Use of EHR Improve Quality of Care?*
- University of Cincinnati, Department of Operations, Business Analytics, and Information Systems, September 2014: *Healthcare Analytics and Clinical Intelligence: A Risk Prediction Framework for Chronic Care*

## Awards, Honors and Grants

- Best paper nomination, Workshop on Information Technology and Systems (WITS), 2020
- First Year Assistant Professor Award: *Innovation and Entrepreneurship in Digital Health* (\$20,000), Florida State University, 2016
- Planning Grant: *Understanding the Impacts of Information Technology and Business Analytics in Healthcare* (\$13,000; with Xinlin Tang), Florida State University, 2015
- The Wharton Customer Analytics Initiative (WCAI) Research Opportunity, 2015
- Best paper nomination, Workshop on Information Technology and Systems (WITS), 2014
- Selected participant, the Americas Conference on Information Systems (AMCIS) Doctoral Consortium, 2014

## Service Activities

### Professional Service Activities

- *Associate Editor*
  - MIS Quarterly (Guest AE), 2018, 2020
  - MIS Quarterly (Special issue AE: “Digital Resilience”), 2020
  - International Conference on Information Systems, 2019-2021
  - Pacific Asia Conference on Information Systems, 2016, 2022
- *Ad-hoc Reviewer (Journal)*
  - MIS Quarterly (MISQ)
  - Information Systems Research (ISR)
  - Management Science
  - Journal of Management Information Systems (JMIS)
  - Journal of the Association for Information Systems (JAIS)
  - Production and Operations Management (POM)
  - ACM Transactions on Management Information Systems (TMIS)
  - INFORMS Journal on Data Science (IJDS)
  - INFORMS Journal on Computing (JOC)
  - ACM Transactions on Data Science
  - Decision Sciences
  - Information & Management
  - Artificial Intelligence in Medicine
  - IEEE Intelligent Systems
  - Journal of the Association for Information Science and Technology (JASIST)
- *Ad-hoc Reviewer (Conference)*
  - ICIS: International Conference on Information Systems, 2014-2020
  - CIST: Conference on Information Systems and Technology, 2014-2016, 2020-2021
  - WITS: Workshop on Information Technologies and Systems, 2014, 2016
  - INFORMS Conference on Data Science, 2017
  - International Conference for Smart Health, 2017, 2019
  - International Conference on Service Science and Innovation, 2020
  - ECIS: European Conference on Information Systems, 2016-2017, 2019
  - AMCIS: The Americas Conference on Information Systems, 2015
  - PACIS: Pacific Asia Conference on Information Systems, 2014, 2016
  - AMIA: American Medical Informatics Association Annual Symposium, 2014
- *Reviewer for Grant Proposals*
  - Research Grants Council of Hong Kong
  - Maryland Industrial Partnerships Program

### **Service Activities Internal to the University**

- Member, Analytics Pathway Task Force for MBA Course Redesign (2018)
- Faculty Adviser, GSU Student Chapter of the Association of Information Technology Professionals (April 2018–Present)

### **PhD Dissertation Committee Member**

- Junyoung Park (*Status: Dissertation proposal*)
- Yanran Liu (*Status: Completed in 2021*)
- Heeseung Lee (*Status: Completed in 2021*)
- Xinying Liu (*Status: Completed in 2020*)

# Teaching Experience

## *Georgia State University*

CIS 8392: Advanced Topics in Big Data Analytics (Graduate)	Spring 2019 - Fall 2021
CIS 8045: Unstructured Data Management (Graduate)	Fall 2021
CIS 8040: Fundamentals of Database Management Systems (Graduate)	Fall 2017
CIS 4730: Unstructured Data Management (Undergraduate)	Fall 2017 - Fall 2020

## *Florida State University*

ISM 4117: Business Intelligence (Undergraduate) Fall 2015 - Spring 2017

## *University of Arizona*

MIS 373: Basic Operations Management Summer 2014

# Professional Membership

- Association for Information Systems (AIS)
  - AIS SIGDITE (Digital Innovation, Transformation, & Entrepreneurship)
- Institute for Operations Research and Management Sciences (INFORMS)
  - INFORMS Information Systems Society
- Academy of Management (AOM)
  - Organizational Communication & Information Systems
  - Entrepreneurship

# Computer Skills

- **Programming Language:** C, C++, JAVA, Python, R, SQL, Stan
- **Databases:** MySQL, Oracle, PostgreSQL, MongoDB
- **Operating Systems:** Windows, Linux