OMB No. 0925-0001 and 0925-0002 (Rev. 10/2021 Approved Through 01/31/2026)

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.  
Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

NAME: ABHIJITH ANAND

eRA COMMONS USER NAME (credential, e.g., agency login): -NA-

POSITION TITLE: Assistant Professor of Information Systems, Department of Information Systems, Walton College of Business, University of Arkansas

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)

| INSTITUTION AND LOCATION | DEGREE  (if applicable) | Completion Date  MM/YYYY | FIELD OF STUDY |
| --- | --- | --- | --- |
| KSIT, Visvesvaraya Technological University  Bangalore, India | Bachelors | 05/2009 | Engineering,  Electronics and Communications |
| University of Wollongong (UoW)  Wollongong, Australia | Masters | 10/2011 | Information and Communication Technology |
| University of Wollongong  Wollongong, Australia | Masters – Research | 06/2013 | Information Systems and Technology |
| University of Waikato,  Waikato School of Management, New Zealand  *Note: Parts of my PhD research were conducted at the University of Wollongong, McGill University and University of Technology Sydney* | PhD | 11/2017 | Information Systems |
| University of Wollongong  Wollongong, Australia  *Note: I have held multiple positions during my PhD, hence dates overlap.* | Global Challenges Scholar | 04/2016 | Engineering and Information Sciences |
| University of Wollongong  Wollongong, Australia  *Note: I have held multiple positions during my PhD, hence dates overlap.* | Associate Research Fellow | 08/2017 | Management Science |

1. **Personal Statement**

I am an Assistant Professor in the Department of Information Systems at the Walton College of Business, University of Arkansas. My research focuses on the intersection of IS value, healthcare information systems, IS strategy, and mathematical modeling. A core theme of my work is understanding how artificial intelligence and data analytics transform organizational strategies and competitive actions, with a particular emphasis on healthcare institutions.

My PhD in Information Systems, along with fellowships and roles on several externally funded grants in Australia, has equipped me with deep expertise in healthcare IT, analytics, and AI. Methodologically, I employ a range of advanced techniques—including statistical and econometric analysis, causal inference, computational modeling, machine learning, and mathematical modeling tailored to theoretical testing.

My research has also had significant industry reach. I have presented findings at practitioner-oriented forums such as SIM Connect, MIS Quarterly Executive, SAS Inc., Westpac, Ports Australia, and the Australian Tax Office. My work has informed whitepapers, business reports, and industry blogs, and has been featured in outlets including Science Magazine, Technology Networks, EurekAlert!, Medical Xpress, and Newswise. Notably, SAS Inc. incorporated insights from my research into their corporate training materials, with a public-facing report receiving over 12,000 downloads - demonstrating strong practitioner engagement and real-world impact.

In summary, I bring the expertise, leadership experience, training, and motivation not only to successfully collaborate on and execute the proposed research projects, but also to generate high-impact publications suitable for top-tier academic journals and actionable outputs for practitioners.

1. **Positions, Scientific Appointments, and Honors**

**Positions and Employment**

Jan 2018 – Present: Assistant Professor, Department of Information Systems, Walton College of Business, University of Arkansas

Aug 2017 – Dec 2017, Research Instructor, Department of Information Systems, Walton College of Business, University of Arkansas

**Scientific Appointments**

*Associate Editor Appointments*

1. CTO Division, Academy of Management Annual Meeting *(****AOM****)* 2025, *Copenhagen, Denmark*
2. Governance, Digital Strategy, and Value, *International Conference on Information Systems (****ICIS****) 2024, Bangkok, Thailand*
3. Special Issue on Digital Organization (2023), Information Systems Frontier *(****ISF****)*
4. Governance, Digital Strategy, and Value, *International Conference on Information Systems (****ICIS****) 2023, Hyderabad, India*
5. HCI and Robotics, *Pacific Asia Conference on Information Systems (****PACIS****) 2023, Nanchang, China*
6. General IS Topics, *International Conference on Information Systems (****ICIS****) 2022, Copenhagen, Denmark*
7. General IS Topics, *International Conference on Information Systems (****ICIS****) 2021, Austin, USA*
8. IT Strategy, Leadership and Governance, *Pacific Asia Conference on Information Systems (****PACIS****) 2021, Dubai, UAE.*
9. Special Issue on Interpretable AI-enabled Online Behavior Analytics (2020), *Internet Research* Journal (**IRJ**)*.*
10. General IS Topics, *International Conference on Information Systems (****ICIS****) 2020, Hyderabad, India.*
11. Advances in Research Methods, *International Conference on Information Systems (****ICIS****) 2020, Hyderabad, India*
12. Transforming Society with Digital Innovation Track, *Pacific Asia Conference on Information Systems (****PACIS****) 2019, Xi’an, China*

**Honors**

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| --- | --- |
| 2024 | EJIS Outstanding Reviewer Contributions |
| 2022 | Pandemic Research Recovery Grant |
| 2022 | Honors College Teaching Recognition |
| 2018 | AIS/ACM Best Doctoral Dissertation Award in the Field |
| 2018 | PHIS-NZ Best Doctoral Dissertation Award for IS Research, New Zealand |
| 2018 | New Faculty Commendation for Teaching Commitment, (UArk) |
| 2017 | Ports Australia Fellowship, (UoW) |
| 2016 – 2017 | UTS FEIT PhD Scholarship |
| 2016 – 2017 | UTS - FEIT Special PhD Scholarship |
| 2013 – 2017 | SAS Inc. Australia Research Fellowship, (UoW) |
| 2016 | ICIS Doctorial Consortium Fellow, Dublin, Ireland |
| 2016 | FEIT Higher Degree Research Publication Award |
| 2016 | UTS - FEIT Special Scholarship – Travel Grant |
| 2016 | UTS - Vice Chancellors Travel Grant (University Wide Competitive Grant) |
| 2013 – 2016 | Global Challenges Fellowship |
| 2014 – 2016 | Elected Higher Degree Research Student Representative (UoW) |
| 2013 – 2015 | University Postgraduate Award, For PhD, UoW |
| 2013 – 2015 | International Postgraduate Tuition Award, For PhD, UoW |
| 2013 - 2015 | SCIT Research Conference Grant, Competitive Grant, UoW |
| 2015 | Big Data Analytics Summer Camp, Harbin Institute of Technology, China |
| 2012-2013 | International Postgraduate Tuition Award |

**Scientific Memberships**

2014 – Present: Association of Information Systems

2022 – Present: Informs

1. **Contributions to Science**
2. **Hospitals, Technology, Policy and Performance**

**One stream of my research work examines the behaviors between healthcare practitioners and healthcare analytics platforms – aligned with the key objective of the HITECH Act.** A significant strand of my research investigates how hospitals use analytics systems to respond to performance pressures in the complex and resource-constrained clinical environment. This work addresses a critical gap in our understanding of when and why healthcare practitioners turn to analytics to guide clinical decision-making. While analytics are often cited as enablers of improved clinical and financial performance, there has been limited theoretical clarity on how different types of performance failures in hospitals activate their use. I developed the Theory of Performance-Driven Search (TPS), which explains how healthcare practitioners engage in analytics-enabled search in response to financial and clinical performance failures, shaped by historical and social aspiration levels. We collaborated with more than 15 U.S. hospitals over a five-year period to systematically collect proprietary healthcare performance markers. These publications provides potential reasons regarding the concerns on why hospitals have been failing to adopt emerging technologies despite incentives structures established under HITECH Act. Our findings are highly relevant to clinical practitioners and hospital administrators. Collectively, insights from this body of work offer a more grounded understanding of how analytics are used in high-pressure healthcare settings and provide practical guidance for improving the targeted use of health IT systems in line with HITECH goals. This work not only contributes to IT literature but also informs clinical practice by showing how performance data and analytics can be better integrated into real-world decision-making processes in hospitals.

1. Anand, A., Sharma, R. & Kohli, R. (2020). What Influences Managerial Use of Business Analytic Systems? A Theory of Performance-Driven Search. *Information Systems Research*, 31(4).
2. Vasist, P., Anand, A., & Krishnan, S., (2023) “The Role of CIOs and Board’s IT Competence on HIT Investments”. *Proceedings of International Conference on Information Systems* (ICIS), Hyderabad, India.
3. Anand, A., Sharma, R. & Kohli, R., (2016). “How Organizational Performance Influences Managerial Search? – Towards ‘Informating Search’ Theory”. *Proceedings of International Conference on Information Systems (ICIS) 2016, Dublin, Ireland.*
4. Anand, A., Sharma, R. & Kohli, R., (2015). “Who Kicks Whom? Temporal and Contextual Effects in the IT Use – Performance Relationship”. Proceedings of *International Conference on Information Systems (ICIS), Ft Fort Worth, Texas, US.*

**Ongoing and recently completed projects that I would like to highlight include:**

1. Anand, A., Magno, Q. & Kohli, R., “Unpacking the Impacts of Healthcare Analytics Investments on Clinical Process Performance”. *MIS Quarterly, Ongoing.*
2. Anand A, Queiroz M and Sambhara C, “Performance Shortfalls, Policy Uncertainties, and Digital Advantage in U.S. Hospitals”, *Production and Operations Management Journal (POM),* Ongoing.
3. Anand, A., & Magno, Q. “Differential Impacts of IT Investment: How Type of Investment in Analytics Affects Healthcare Performance Value Chain” *Journal of Association of Information Systems (JAIS), Ongoing.*
4. **Vaccine Efficacy and Public Health Decision-Making**

**Another critical strand of my research focuses on the role of contextual factors in shaping the clinical and public health interpretation of vaccine efficacy, particularly in high-stakes pandemic environments. In one of my studies, we conducted a meta-regression analysis of Phase 3 SARS-CoV-2 vaccine trials and found a significant, previously underexplored relationship: *vaccine efficacy tends to be lower in regions experiencing higher levels of pandemic prevalence at the time of the trial.***

**Insights from this work challenges the conventional assumption that vaccine efficacy is a static attribute of a biomedical product and instead positions efficacy as partially endogenous to the epidemiological and environmental context. The implication is that public health institutions and clinical practitioners must interpret efficacy data in light of real-time pandemic dynamics when shaping vaccination strategies, allocating resources, and communicating risk to the public. My work carries implications for drug and vaccine manufacturers by challenging the longstanding assumption that efficacy is a fixed, product-level attribute. Instead, it demonstrates that observed efficacy is context-dependent - specifically, that higher pandemic prevalence during Phase 3 trials is associated with lower reported vaccine efficacy. Insight from my work raises questions on the traditional approaches to trial design and marketing by revealing that where and when a vaccine is tested can materially affect its perceived effectiveness. As a result, oversight institutions need to increase scrutiny over trial site selection, particularly if it appears intended to boost headline efficacy rates. Furthermore, comparative efficacy claims between vaccines may be misleading if they ignore contextual factors, prompting a need for more nuanced and standardized efficacy reporting. The findings also elevate the importance of real-world evidence and post-market surveillance, especially for vaccines tested under more severe conditions that may outperform their trial results in lower-prevalence environments. Overall, this research urges pharmaceutical firms to rethink how they design trials, interpret results, and communicate efficacy to regulators, clinicians, and the public in a more context-aware and transparent manner.**

**This line of inquiry aligns with national priorities on pandemic preparedness, health equity, and evidence-based policymaking. It also informs how we evaluate, deploy, and scale vaccines and other interventions in the face of future public health crises, particularly when facing uneven pandemic waves across geographic regions. By identifying pandemic prevalence as a moderator of observed efficacy, this research contributes to more context-aware clinical trial interpretation and provides a foundation for adapting regulatory and deployment strategies in dynamic settings.**

1. **Sharma, R., & Anand, A. (2022). The effect of pandemic prevalence on the reported efficacy of SARS CoV-2 vaccines. PLOS ONE, 17(4),**
2. **Navigating Emerging Technologies – Organizational and Societal Implications**

**Lastly, another distinct strand of my research centers on how organizations and societies can strategically invest in and derive value from emerging technologies such as analytics and AI. I have made significant contributions to IS research. In addition to my proposed theory of performance-driven search, my contributions include the development of a two-stage investment pattern critical for generating value from analytics. To support this, I have developed a decision-making framework for analytics investments that provides practical guidance for managers seeking to optimize returns from their infrastructure spending. I have introduced the Performance Attainment Index, a novel methodological instrument designed to measure performance variations in a more dynamic and context-sensitive manner. Extending this focus to AI, I have proposed a theoretical model for evaluating AI investments that helps managers prioritize different AI capabilities based on organizational needs and temporally situated decision agency. Further, I am currently developing a framework to guide organizations on reconfiguring organizational attentional frameworks.**

In my research on societal implications, a central focus has been the role of digital technology networks in addressing critical global challenges such as poverty alleviation, disaster recovery and health economics. **In an ongoing study, we show that addressing poverty through technology requires moving beyond simplistic measures of ICT adoption to consider the readiness and structure of national technology networks that enable inclusive access and sustained benefits. This research highlights how countries with robust technology network readiness - characterized by connectivity, institutional support, and localized innovation are better positioned to translate digital investments into long-term social and economic gains for underserved populations. In related work, we examine how technology networks contribute to disaster recovery and healthcare economic resilience, especially in the aftermath of large-scale crises. Together, these studies underscore the transformative potential of technology networks not only for organizational efficiency but also for building societal resilience, reducing inequalities, and improving public health outcomes—central goals for policymakers and development organizations worldwide.**

1. Queiroz, Q., Tallon, P., Coltman, T., Anand, A. & Sharma, R “IT Resource Relatedness and The Search for Business Unit Agility”. *European Journal of Information Systems (EJIS), Forthcoming.*
2. Queiroz, M., Anand, A. & Baird, A., (2024) “Manager Appraisal of Artificial Intelligence Investments”. *Journal of Management Information Systems (JMIS),* 41(3)
3. Queiroz, M., Anand, A., & Baird, A. (2024). Leveraging Artificial Intelligence to Enable Competitive Actions. *Proceedings of Americas Conference on Information Systems (AMCIS), Salt Lake City, Utah, United States.*
4. Queiroz, M, and **Anand, A**., (2022) "Theorizing Agency and Temporality in IT-Enabled Competitive Actions." (2022). *Proceedings of Americas Conference on Information Systems (AMCIS), Minnesota, United States.*
5. Anand, A., Sharma, R. & Coltman, T., (2016) “Four Steps to Realizing Business Value from Digital Data Streams”, *Management Information Systems Quarterly – Executive (MISQ-E),* 15(4)

**Ongoing and recently completed projects that I would like to highlight include:**

1. Sambhara, C., Anand, A., Goudarzi, K., “IT-Related Deficiencies in Internal Controls and Product Market Threats: Impact on Firms’ Vertical Boundaries”, *Information Systems Research (ISR), Ongoing*
2. Baird, A., Queiroz, M., & Anand, A. “Theorizing Human-AI Distributed Attention: Rethinking the Future of Firm’s Attentional Architecture”, Ongoing
3. Anand, A., Kohli, R., Atanasov, V & Dutta, S., “Alleviating Poverty Through Technology Network Readiness: Going Beyond ICT Adoption”.

**Publication List: https://scholar.google.com/citations?user=4QxVNC8AAAAJ&hl=en**