Douglas C. Derrick

Associate Dean, College of Information Science & Technology
Mutual of Omaha Distinguished Chair of Information Science and Technology
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EDUCATION

- PhD, Management Information Systems, University of Arizona, Tucson, AZ, 2011.
- MBA, San Jose State University, San Jose, CA, 2001.
- Master of Computer Science, Texas A&M University, College Station, TX, 1998.
- BS in Computer Science, US Air Force Academy, Colorado Springs, CO, 1996.
  - Distinguished Graduate (top 6% of all graduates)

RELEVANT PREPARATION

2021-Current: **Associate Dean**, College of Information Science and Technology
- Led the development and monitoring of the college's strategic plan
  - Responsible for direct implementation of multiple strategic initiatives
- Crafted and currently leading capital campaign objectives for scholarships and building expansion
- Sets priorities and helps oversee annual operating budget ($10.4 Million)
- Grew college's research awards from $3.79 Million to $9.23 Million annually
- Asked by UNO president to lead the university's strategic environmental examination

2018-Current: **Director, The Center for Collaboration Science**, University of Nebraska at Omaha
- Sets strategic direction for the center
- Builds relationships with key stakeholders (Fortune 500 companies, government agencies, startup community, etc.) and discerns their needs and objectives
- Leads the research and consulting student teams for industry, government, and non-profit organizations. Total awards to date: $55.8 Million
- Writes proposals. Designs and implements center research and innovation programs
- Leads technical transition efforts for the Center

2011-2018: **Assistant / Associate Professor**, Information Technology Innovation
- Created the Master of Science in IT Innovation. The principal author of the proposal. Shepherded this application through to implementation.
- Led total revision of undergraduate curriculum (7 new courses)
- Created the Minor in IT Innovation. The principal author of the proposal.
- Taught in the Executive Education program
- Published 26 peer-reviewed journal articles and book chapters (28 total)
- Published 47 peer-reviewed conference papers (54 total)

2007–2011: Senior Executive Consultant, MacAulay Brown, Inc.
- Technical consultant for all MacAulay–Brown Internal Research & Development projects
- Provided leadership support to all national clients
- Developed on-boarding curriculum for new analysts and consultants

2004–2007: Program Manager, Special Programs, MacAulay Brown, Inc.
- Directed eight contracts that provided applied research for commercial and federal customers. Revenues grew from $1.49 M in 2004 to $7.13 M in 2007
- Direct-line supervisor of 27 people. Reported to Vice-President
- Headed all MacAulay Brown Internal Research and Development projects. Set and executed research budget (five proprietary efforts)
- Developed technical, strategic plans for MacAulay–Brown
- Provided planning, consultation, and advisory services on system development to all MacAulay–Brown projects

2003–2004: Project Manager, COMET Project, MacAulay Brown, Inc.
- Led a $2.6 Million, cutting-edge, network-security, software-development effort for the Air Force. Technical and business leader of the division's flagship project

2001–2003: Project Manager, Enterprise Vulnerability Assessment, US Air Force
- Led a $1.7 Million, Air Force-wide software development effort and acted as the business and technical manager for the enterprise-wide, java-based system

1999–2001: Program Integrator, Lockheed Martin Missiles & Space, US Air Force
- Coordinated an 80-person, multi-functional team in 9 cities. Managed a $3.9 Billion contract

1997–1999: Manager of Information Technology, Lockheed Martin, US Air Force
- Led a 6-person team responsible for managing and defending an operational network and multiple online databases that supported 110 users housed in 9 buildings and three cities

1996–1997: Research Fellow, Texas A&M University, US Air Force
- Conducted research in network security, distributed computing, and cryptography

PUBLICATIONS

1. Logan, M. K., Damadzic, A., Medeiros, K., Ligon, G. S., & **Derrick, D. C.** (2021) Constraints to Malevolent Innovation in Terrorist Attacks. *Psychology of Aesthetics, Creativity, and the Arts*. In-press.
2. Hall, M., Logan, M., Ligon, G. S. & **Derrick, D. C.** (2020), Do Machines Replicate Humans? Toward a Unified Understanding of Radicalizing Content on the Open Social Web. *Policy & Internet 12(1)* pp. 109–138.
3. Logan, M. K., Ligon, G. S., & **Derrick, D. C.** (2020) Measuring Tactical Innovation in Terrorist Attacks. *The Journal of Creative Behavior* 54(4) pp. 926–939.
4. Harms, M., Reiter-Palmon, R., & **Derrick, D. C.** (2020) The role of information search in creative problem solving. *Psychology of Aesthetics, Creativity, and the Arts* 14(3) pp. 367–380.
5. Sporer, K., Logan, M. K., Ligon, G. S., & **Derrick, D. C.** (2019) #JESUISPARIS?: An Appeal to Hypocrisy and Justifications for Mass Casualty Violence. *Journal of Qualitative Criminal Justice & Criminology* 8(1) pp. 57–82.

6. Ligon, G. S., **Derrick. D. C.,** Harms, M. M. (2018) Destruction through Collaboration: How Terrorists Work Together toward Malevolent Innovation, *Team Creativity and Innovation,* eds. Reiter-Palmon, R., pp. 437-455.

7. Ligon, G. S., **Derrick. D. C.** (2017) Leader Structure and Consideration for Innovation, *Handbook of Research on Leadership and Creativity*, eds. Mumford, M. D., Hemlin, S., Edward Elgar Publishing, pp. 205-227.

8. Logan, M., Ligon, G. S., **Derrick. D. C.** (2017) Applying an Organizational Framework to Examine Jihadi Organizations as an Industry, *Homeland Security Affairs* 13, Article 6 (October 2017).

9. Ligon, G. S., Sporer, K., **Derrick D. C.** (2017) Violent Innovation: Creativity in the Domain of Terrorism, Book Chapter, *The Cambridge Handbook of Creativity Across the Domains*, eds. Kaufman, J. C., Glaveanu, V. P., Baer, J. Cambridge University Press, pp. 507-522.

10. **Derrick, D. C.,** Ligon, G. S., Harms, M. M., Mahoney, W. R. (2017) Cyber Sophistication Assessment Methodology for Public Facing Terrorist Websites, *Journal of Information Warfare*, 2017:16 (April), 13-30.

11. **Derrick, D. C.,** Sporer, K., Church, S., & Ligon, G. S. (2016). Ideological rationality and violence: An exploratory study of ISIL's cyber profile. *Dynamics of Asymmetric Conflict*, 9:1-3, 57-81.

12. Twyman, N. W., Proudfoot, J. G., Schuetzler, R. M., Elkins, A. C., **Derrick, D. C.** (2015) Robustness of Multiple Indicators in Automated Screening Systems for Deception Detection, *Journal of Management Information Systems*, 32:4, 215-245.

13. Nunamaker, J. F., Briggs, R. O., **Derrick, D. C.,** Schwabe, G. (2015) Maximizing the Impact of Information Systems Research: Achieving Rigor and Relevance by Going the Last Research Mile. *Journal of Management Information Systems* 32:3, 10-47.

14. Ligon, G. S, Harms, M. M., **Derrick, D. C.** (2015) Lethal Brands: How VEOs Build Reputations. *Journal of Strategic Studies* 8(1), 27-42.

15. Arnold, N.R., Mahoney, W.R., **Derrick, D. C.,** Ligon, G.S., Harms, M.M. (2015) Feasibility of a Cyber Attack on National Critical Infrastructure by a Non-State Violent Extremist Organization. *Journal of Information Warfare* 14(1), 83-94.

16. Eshelman, R. E., **Derrick, D. C.** (2015) Relying on the Kindness of Machines? The Security Threat of Artificial Agents. *Joint Forces Quarterly* 77(2), 70-75.

17. **Derrick, D. C.,** Ligon, G. S. (2014) The Affective Outcomes of Using Influence Tactics in Embodied Conversational Agents. *Computers in Human Behavior* 33(1), 39-48.

18. Pickard, M., Burgoon, J. K., **Derrick, D. C.** (2014) Towards an Objective Linguistic-Based Measure of Perceived Embodied Conversational Agent (ECA) Power and Likeability. *International Journal of Human Computer Interaction* 30(6), 495-516.

19. **Derrick, D. C.,** Meservy, T. O., Jenkins, J., Burgoon, J. K., Nunamaker, J. F. (2013) Detecting deceit in chat-based communication using typing behavior and message cues. *ACM Transactions on Management Information Systems* 4(2), 9:1-21.

20. Elkins, A. C., **Derrick, D. C.** (2013) The Sound of Trust: Voice as a Measurement of Trust During Interactions with Embodied Conversational Agents. *Group Decision and Negotiation* 22(5), 897-913.

21. Reyes, L. F, **Derrick, D. C.,** Langhals, B. T., Nunamaker J. F. (2013). Collaborative Cross-Border Security Infrastructure and Systems: Identifying policy, managerial and technological challenges. *International Journal of E-Politics*, 4(2), 21-38.

22. Boedeker, B., Bernhagen, M., **Derrick, D. C.,** Abadia de Barbara, A., Del Real Colomo, A., Hillan Garcia, L., Nicholas, T. (2013). A demonstration of the Storz C-CAM in endoscopic imagery projection for far forward battlefield telemetric support and training. *Studies in Health Technology and Informatics*, 184, 51-55.

23. Twitchell D., Jensen M., **Derrick D. C.,** Burgoon J. K., and Nunamaker J. F. (2013), Negotiation outcome classification using language features, *Group Decision and Negotiation,* 22(1), 135–151.

24. Burgoon, J. K., **Derrick, D. C.,** & Elkins, A. C. (2011). Sociocultural Intelligence and Intelligent Agents. *IEEE Intelligent Systems*, 26(4), 84–87.

25. **Derrick, D. C.,** Jenkins, J., & Nunamaker Jr, J. F. (2011). Design Principles for Special Purpose, Embodied, Conversational Intelligence with Environmental Sensors (SPECIES) Agents. *AIS Transactions on Human-Computer Interaction*, 3(2), 62–81.

26. Nunamaker Jr., J. F., **Derrick, D. C.,** Elkins, A. C., Burgoon, J. K., & Patton, M. W. (2011). Embodied Conversational Agent (ECA) Based Kiosk for Automated Interviewing. *Journal of Management Information Systems*, 28(1), 17–49.

27. **Derrick, D. C.,** Elkins, A. C., Burgoon, J. K., Nunamaker Jr, J. F., & Zeng, D. D. (2010). Border Security Credibility Assessments via Heterogeneous Sensor Fusion. *IEEE Intelligent Systems*, 25(3), 41–49.

28. **Derrick, D. C.** (1996). It Doesn't Fit: The Dilemma of Computer Software and Patent/Copyright Law. *Electronic Journal of Law*, 3(1), 1–8.

CONFERENCE PROCEEDINGS AND PRESENTATIONS

1. d'Amato, A. L., Ligon, G. S., & Derrick, D. C. (2022) Exploring Influential Mindsets: Applying an IO Framework to Extremist Narratives. *Association for Psychological Science Annual Convention*, May 26–29, 2022. Chicago, IL

2. Elson, J. S., Merino, L., Derrick, D.C. (2022) Investigating Conformity and the Role of Personality in a Visual Decision Task with Humanoid Robot Peers. *Hawai'i International Conference on System Sciences (HICSS)*, Jan 5–8, 2022, HI.

3. Elson, J. S., Quinata, D. S., Merino, L., Derrick, D.C. (2022) Sympathetic Nervous System Responses to Different Automated Agent Embodiments. *Hawai'i International Conference on System Sciences (HICSS)*, Jan 5–8, 2022, HI.

4. Elson, J. S., Merino, L., Derrick, D.C. (2021). Decision-making with a Humanoid Robot Partner: Individual Differences Impacting Trust. *International Conference on Computer-Human Interaction Research and Applications*, Oct 28–29, 2021.

5. Mazgaj M., d'Amato, A., Elson, J. S., Derrick, D. C. (2021) Exploring the Effects of Real-Time Hologram Communication on Social Presence, Novelty, and Affect. *Hawai'i International Conference on System Sciences (HICSS)*, Jan 5–8, 2021, HI.

6. Elson, J. S., Derrick, D. C., Merino, L. (2021) An Empirical Study Exploring Difference in Trust of Perceived Human and Intelligent System Partners. *Hawai'i International Conference on System Sciences (HICSS)*, Jan 5–8, 2021, HI.

7. Elson, J. S., Derrick, D. C., Ligon, G.S. (2020) Trusting a Humanoid Robot: Exploring Personality and Trusting Effects in a Human-robot Partnership. *Hawai'i International Conference on System Sciences (HICSS)*, Jan 8–11, 2020, Maui, HI.

8. D'Amato, A., Logan, M. K., & Derrick, D. C. (2019) Exploring the Brand: Brand Personality of

Applicant for Professional Practice Professor

ISIS Messaging. *Midwest Academy of Management*, Oct 10–12, 2019, Omaha, NE. -- *BEST PAPER (Nominee)*

9. Elson, J. S., & Derrick, D. C. (2019) Collaborating with Artificial Intelligence: Exploring the Relationship Between System Embodiment, Utilization and Trust. *Midwest Academy of Management*, Oct 10–12, 2019, Omaha, NE.

10. Derrick, D. C., Elson, J. S. (2019) Exploring Automated Leadership and Agent Interaction Modalities. *Hawai'i International Conference on System Sciences (HICSS)*, Jan 8–11, 2019, Maui, HI.

11. Derrick, D. C., & Elson, J. S. (2018). Automated leadership: Influence from embodied agents. In *HCI in Business, Government, and Organizations – 5th International Conference, HCIBGO 2018, Held as Part of HCI International 2018, Proceedings* (pp. 51–66). (Lecture Notes in Computer Science; Vol. 10923 LNCS). Springer Verlag. -- *BEST PAPER (Winner)*

12. Elson, J.S. Ligon, G.S., Derrick, D.C. (2018) Comparing Interface Influence on Users with Varying Expertise. International Conference on HCI in Business, Government, and Organizations *HCI in Business, Government, and Organizations – 5th International Conference, HCIBGO 2018, Held as Part of HCI International 2018, Proceedings*. (Lecture Notes in Computer Science; Vol. 10923 LNCS). Springer Verlag.

13. Hall, M., Logan, M., Church, S. Ligon, G., Derrick, D. C. (2018) Computational Identification of Latent Radical Content from Online Social Media. Internet, Policy, and Politics 2018: Long Live Democracy?. Oxford Internet Institute.

14. Molfese, P., Nielson, D., Molfese, D., Bandettini, P., Windisch, S., Derrick, D. C., Ligon, G. S., & Simi, P. (2018). Simultaneous EEG-fMRI Reveal Temporal-Spatial Bias Patterns in Former White Supremacists. *Annual meeting of the Organization for Human Brain Mapping*, June 2018, Singapore.

15. Elson, J. S., Derrick, D. C., Ligon, G. S (2018) Examining Trust and Reliance in Collaborations between Humans and Automated Agents. *Hawai'i International Conference on System Sciences (HICSS)*, Jan 4–7, 2018, Kona, Big Island, HI.

16. Derrick, D. C., Elson, J. S. (2018) Methodological Recommendations for Eye–Tracking in Information System Research. *Hawai'i International Conference on System Sciences (HICSS)*, Jan 4–7, 2018, Kona, Big Island, HI

17. Lundmark, L. W., Miles, E. P., Derrick, D. C., Ligon, G. S. (2017) Problem Complexity and Collaborative Distance: A Multi–level Framework for Understanding Effective Collaborations. *Strategic Management Society Special Conference - Costa Rica*, Dec 12–14, 2017, San José, Costa Rica

18. Derrick, D. C., Allen, J. A., Ward, K. W., (2017) Reprocessability and Engagement: Comparing Text to Human Forms for Information Conveyance. *Interservice/Industry Training, Simulation, and Education Conference*, Nov 27–Dec 1, 2017, Orlando, FL

19. Lundmark, L.W., Nickerson, J. A., Derrick, D.C. (2017) Comprehensiveness in Wicked Problem Formulation: Models of Cognition in the Design and Selection of Valuable Strategies. *Annual Meeting of the Academy of Management*, Aug 4–8, 2017, Atlanta, GA.

20. Shelton, H., Derrick, D. C., Ligon, G. S., Elson, J. S., Miles, E. P. (2017). Using Oculometrics to Conduct Job Analyses for Knowledge Workers. *Society for Industrial and Organizational Psychology Annual Conference*, Apr 27–29, 2017, Orlando, FL

21. Scheller, E., Reiter-Palmon, R., Kocsis, D., Ligon, G. S., Derrick, D. C., Jensen, S., Roysten, R. P., Sands, S. J., Alothaim, A., Harland, L. K., de Vreede, G. J. (2017). Leadership

Development Through Virtual Teams and Case-Based Discussion. *Society for Industrial and Organizational Psychology Annual Conference ,* Apr 27–29, 2017, Orlando, FL

22. Derrick, D. C., Ligon, G. S., Lundmark, L., Pleggenkuhle-Miles, E., Elson, J. S. (2017). Collaborative Distance: Multi-level Analysis Framework for Recommending Collaboration Structure and Safeguards. *Hawai'i International Conference on System Sciences (HICSS)*, Jan 5–8, 2017, Kona, Big Island, HI.

23. Crowe, J. D., Jones L., Duralia, D. P., Ligon, G. S., Derrick, D. C. (2016). Experiential Learning for Leader Development in the Military Domain. *Society for Industrial and Organizational Psychology Annual Conference,* Apr 14–16, 2016, Anaheim, CA.

24. Derrick, D. C., Church, S., Sporer, K., Ligon, G. S. (2016). Social Media, Open Architectures and Ideological Rationality. *Hawai'i International Conference on System Sciences (HICSS)*, Jan 5–8, 2016, Kauai, HI.

25. Lundmark, L., Derrick, D. C., Crowe, J. D., Lunn, M., Ligon, G. S. (2016). An Investigation of Problem Formulation Comprehensiveness on Solution Novelty and Elegance in Team Collaboration. *Hawai'i International Conference on System Sciences (HICSS)*, Jan 5–8, 2016, Kauai, HI.

26. Ligon, G. S., Steffensmeier, C. J., Derrick, D. C. (2016). Virtual Leadership: Leader Preferences Based on Individual Differences and On-line Influence. *Hawai'i International Conference on System Sciences (HICSS)*, Jan 5–8, 2016, Kauai, HI.

27. Harms, M. M., Reiter-Palmon, R., Mitchell, K. S., Derrick, D. C., Crowe, J. D. (2015). The Impact of Problem Construction and Information Search on Creativity. *Society for Industrial and Organizational Psychology Annual Conference,* Apr 23–25, 2015, Philadelphia, PA.

28. Zongrone, B., Derrick, D. C., Ligon, G. S. (2015). Individual Differences that Predict Interactions in Mixed-Initiative Teams. *Society for Industrial and Organizational Psychology Annual Conference,* Apr 23–25, 2015, Philadelphia, PA.

29. Jensen, S., Reiter-Palmon, R., Harland, L., Sands, S., Ligon, G., Derrick, D.C., de Vreede, G.J., Alothaim, A., & Kocsis, D. (March, 2015). "Tough Love⋯or Killing a Dream?", Critical Incident & Teaching Note, *MBAA Society for Case Research Annual Meeting*, Chicago, IL

30. Reiter-Palmon, R., Sands, S., Kocsis, D., Alothaim, A., Ligon, G., Harland, L., Derrick, D. C., de Vreede, G.J., & Jensen S. (2015). Self-perception of creativity and creativity training. *2015 American Psychological Association Annual Convention*, Toronto, Ontario, Canada.

31. Zongrone, B., Derrick, D. C., Ligon, G. S. (2015). Individual Differences That Predict Interactions in Mixed-Initiative Teams. *Hawai'i International Conference on System Sciences (HICSS)*, Jan 5–9, 2015, Kauai, HI. -- BEST PAPER (Winner)

32. Harms, M., Ligon, G. S., Derrick, D. C., & Harris, D. (March, 2014). *Leader decapitation as an influence strategy for VEOs.* Paper presented in the symposium (Sawyer, J., Chair) on Deterrence of Violent Non-State Actors. *International Studies Association Conference*, Toronto, Canada.

33. Derrick, D. C., Read, A., Ligon, G. S. (2014). Developing Entrepreneurial Skills in IT Courses: The Role of Agile Software Development Practices in Producing Successful Student Initiated Projects. *Hawai'i International Conference on System Sciences* (HICSS), Jan 6–9, 2014, Big Island, HI.

34. Derrick, D. C., Read, A. (2013). An Information Taxonomy for Improving Rational Decision Making. *Hawai'i International Conference on System Sciences* (HICSS), Jan 7–10, 2013, Maui, HI.

35. Read, A., Derrick, D. C. (2013). A Feasibility Study for Automated Impostor Detection Using Facial Recognition. *Hawai'i International Conference on System Sciences* (HICSS), Jan 7-10, 2013, Maui, HI.

36. Derrick, D. C., Read, A., Nguyen, C., Callens, A. & de Vreede, G. J. (2013). Automated Group Facilitation for Gathering Wide Audience End-User Requirements. *Hawai'i International Conference on System Sciences* (HICSS), Jan 7-10, 2013, Maui, HI.

37. Derrick, D. C., Read, A. (2012). Enriching Human-Computer Interactions Via a Facial Recognition in an Embodied Agent. Presented at the *Workshop on Information Technologies and Systems*, Dec 15-16, 2012, Orlando, FL.

38. Alipour, H., Zeng, D. D., & Derrick, D. C. (2012). AdaBoost-based Sensor Fusion for Credibility Assessment. Presented at the *IEEE International Conference on Intelligence and Security Informatics*, Jun 11-14, 2012, Washington, D.C.

39. Nunamaker Jr., J. F., Elkins, A. C., Twyman, N., & Derrick, D. C. (2012). AVATAR System for Automated Credibility Assessment and Interviewing. Presented at the *IEEE International Conference on Intelligence and Security Informatics*, Jun 11-14, 2012, Washington, D.C.

40. Derrick, D. C., de Vreede, G. J., Read, A. S. (2012). SPECIES Agents for Automated Facilitation of Mass Collaboration. *Group Decision and Negotiation Conference*, May 21-24, 2012, Recife, Brazil.

41. Derrick, D. C., de Vreede, G. J. (2012). Automated Transactional Leadership in Ad-Hoc, Virtual Teams. *Group Decision and Negotiation Conference*, May 21-24, 2012, Recife, Brazil.

42. Oh, O., Nguyen, C., de Vreede, G. J., Derrick, D. C. (2012). Collaboration Science in the Age of Social Media: A Crowdsourcing View. *Group Decision and Negotiation Conference*, May 21-24, 2012, Recife, Brazil.

43. Luna-Reyes, L., Andersen, D. F., Andersen, D. L., Derrick, D. C., & Jarman, H. (2012). Full Information Product Pricing (FIPP) Regimes: Policy Implications for US-Mexico Sustainable Commerce. Presented at the *Puentes Consortium Annual Conference*, April 26, 2012, Houston, TX.

44. Elkins, A. C., Derrick, D. C., Gariup, M. (2012). The Voice and Eye Gaze Behavior of an Imposter: Automated Interviewing and Detection for Rapid Screening at the Border. *European Chapter of the Association for Computational Linguistics (EACL)*, Apr 23-27, 2012, Avignon, France.

45. Derrick, D. C., Meservy, T. O., Burgoon, J. K., & Nunamaker Jr, J. F. (2012). An Experimental Agent for Detecting Deceit in Chat-based Communication. *Hawai'i International Conference on System Sciences* (HICSS), Jan 4-7, 2012, Maui, HI.

46. Elkins, A. C., Derrick, D. C., Burgoon, J. K., & Nunamaker Jr, J. F. (2012). Predicting Users' Perceived Trust in Embodied Conversational Agents Using Vocal Dynamics. *Hawai'i International Conference on System Sciences* (HICSS), Jan 4-7, 2012, Maui, HI.

47. Derrick, D. C. (2011). Incorporating Influence Tactics into a Decision Aid: Tested via a Dictator Game (Vol. 1). *Presented at the Midwest Association for Information Systems* (MWAIS), Omaha, NE.

48. Derrick, D. C., Moffitt, K., & Nunamaker, J. F. (2011). Gaze Behavior as a Guilty Knowledge Test: Initial Exploration for Use in Automated, Kiosk-based Screening. *Symposium on Credibility Assessment and Information Quality in Government and Business. Presented at the Hawai'i International Conference on System Sciences (HICSS)*, Koloa, Hawaii, USA.

49. Derrick, D. C., Elkins, A. C., & Burgoon, J. K. (2010). Cardiovascular Responses during the

Mock Crime Interviews: Assessment Using Laser Doppler Vibrometry. *Symposium on Credibility Assessment and Information Quality in Government and Business. Presented at the Hawai'i International Conference on System Sciences (HICSS)*, Waikoloa, Big Island, Hawaii, USA.

50. Derrick, D. C. (2010). Advanced Human-Agent Interaction: Embodied Intelligent Agents for Automated Interviewing. *Doctoral Consortium. Presented at the Americas Conference on Information Systems (AMCIS)*, Lima, Peru.

51. Derrick, D. C., & Nunamaker Jr, J. (2010). Avatar-based Kiosk with Interpersonal Sensors. *Presented at the Workshop on Information Technologies and Systems (WITS)*, St. Louis, MO.

52. Nunamaker Jr, J., Luna-Reyes, Luis, Langhals, B. T., & Derrick, D. C. (2010). Border Security Infrastructure and Systems. *Presented at the Puentes Consortium Annual Conference*, Houston, TX.

53. Derrick, D. C. (2009). Pilot study to classify deceptive, synchronous, computer-mediated communication using lexical features. *Symposium on Credibility Assessment and Information Quality in Government and Business. Presented at the Hawai'i International Conference on System Sciences (HICSS)*, Waikoloa, Big Island, Hawaii.

54. Burgoon, J. K., Derrick, D. C., Elkins, A. C., Humphreys, S. L., Jensen, M. L., Diller, C. B. R., & Nunamaker, J. F. (2008). Potential noncontact tools for rapid credibility assessment from physiological and behavioral cues. *Presented at the IEEE International Carnahan Conference on Security Technology*, Prague, Czech Republic.

CONTRACTS AND GRANTS

- $36,500,000 grant from Department of Homeland Security (DHS) for "*National Counterterrorism Innovation, Technology and Education (NCITE) Center*". Establishes the University of Nebraska at Omaha as a DHS Center of Excellence for Counterterrorism Research. March 2020 - June 2030. **Co-Principal Investigator.**

- $562,194 contract from Union Pacific Railroad awarded to the University of Nebraska at Omaha for "*Legacy System Redesign*". Understand if there are user experience improvements that could be implemented, productivity gains that are possible, and overall redesign elements of legacy software. September 2015 - July 2023. **Principal Investigator.**

- $715,102 grant from Department of Homeland Security (DHS) for "*Developing and Testing an Intelligent Chatbot to Help Individuals Identify Threats and Improve Tips Reporting*". We will combine real-world online tips and focus groups with threat assessment team members with lab-based studies to understand gaps in reporting frameworks. The innovation project creates and experimentally tests an intelligent chatbot for tips reporting. October 2021–Septemebr 2023. **Co-Principal Investigator.**

- $54,594 contract from First National Bank of Omaha for "*Creating the Branch of the Future*". Using Machine Learning algorithms on customer data to determine task-technology fit for clusters of bank users. March 2020 - January 2021. **Principal Investigator.**

- $880,026 grant from USCYBERCOM awarded to the University of Nebraska at Omaha for "*Operationalizing Cyber Situational Awareness Research: Capability Exploration*". August 2018 - July 2021. **Principal Investigator.**

- $162,000 grant from the Department of Homeland Security (DHS) Center for Accelerating Operational Efficiency (CAOE) awarded to the University of Nebraska at Omaha for "*National Media Exploitation Center Rapid Visualization*". Sep 2019 - Sep 2020. Using algorithms for rapid extraction and visualization of captured mobile devices. **Co-Principal Investigator.**

- $280,000 grant from the Department of Homeland Security (DHS) Center for Accelerating Operational Efficiency (CAOE) awarded to the University of Nebraska at Omaha for "*Emerging Violent Extremist Organizations (VEO) threats to the Homeland*". June 2018 - July 2020. An assessment of VEO features in relation to their capacity for innovative and violent performance against the homeland. **Co-Principal Investigator.**

- $19,947 contract from United States Strategic Command (USSTRATCOM) awarded to the University of Nebraska at Omaha for "*Nuclear Tool Exploration and Problem Construction*". Jun 2019 - Sep 2019. Evaluate tools for nuclear effects and perform problem construction and design recommendations. **Principal Investigator.**

- $100,000 from the Department of Homeland Security (DHS) Center for Accelerating Operational Efficiency (CAOE) awarded to the University of Nebraska at Omaha for "*Organizational Sophistication and Terrorism in the Philippines and Age of Disruption*". July 2018 - June 2019. **Co-Principal Investigator.**

- $180,000 from Nebraska Research Institute for "*Human-Machine Collaboration*". Creation of the Human-Machine Collaboration Laboratory June 2018 - July 2019. **Principal Investigator.**

- $200,000 grant from The Combating Terrorism Technical Support Office for "*Leadership of the Extreme and Dangerous for Innovative Results (LEADIR) Dataset*". October 2018 - December 2019. **Co-Principal Investigator.**

- $265,191 grant from the Department of Homeland Security (DHS) National Center for Studies of Terrorism and Responses to Terrorism (START) awarded to the University of Nebraska at Omaha for "*Organizational Determinants of Violence and Capacity for Destruction*". August 2015 - July 2018. An assessment of ideological organizational features in relation to their capacity for innovative and violent performance. **Co-Principal Investigator.**

- $70,874 contract (3 awards) from Triangle Experience Group (TEG) awarded to the University of Nebraska at Omaha for "*Advanced Collaboration Enterprise Service (ACES) Undergraduate Research Assistant*". May 2015 - Jul 2019. Assistance with the installation and maintenance, technical development, and experimental design of the ACES system. **Principal Investigator.**

- $51,500 contracts (4 awards) from Omaha Steaks awarded to the University of Nebraska at Omaha for "*Using Eye Tracking Data to Gauge User Experience with a Mobile Website*". Feb 2016 – Jun

2019. Assistance with the installation and maintenance, technical development, and experimental design of the ACES system. **Principal Investigator.**

- $200,000 grant from Nebraska Research Institute for "*Human-Machine Holographic Laboratory*". Produce and test prototype holographic kiosks. July 2017 - June 2018. **Principal Investigator.**

- $108,692 grant from the University of Nebraska POE for "*Studying Violent Extremist Organizations Graduate Research Assistantship*". Create a system for monitoring and capturing transient online VEO propaganda. August 2016-December 2019. **Principal Investigator.**

- $100,000 from the Department of Homeland Security (DHS) for "*Interactionist Organizational Recruiting Study: Homegrown Violent Extremism*". Examining individual differences and media channels that influence homegrown violent extremism. October 2017-September 2018. **Co-Principal Investigator.**

- $214,984 contract from United States Strategic Command (USSTRATCOM) awarded to the University of Nebraska at Omaha for "*Intelligence Support to Deterrence Operations*". September 2015 - Mar 2017. Summarize relevant social science research describing analytical process and cognitive method related to deterrence, as well as organizational pathways to apply the processes and methods. **Co-Principal Investigator.**

- $249,745 contract from United States Strategic Command (USSTRATCOM) awarded to the University of Nebraska at Omaha for "*Decision Support Capabilities for National Leadership*". September 2015 - October 2016. Provide a theoretically sound and implementable framework for describing USSTRATCOM's mission for decision support to National leadership. We will have a particular focus on the sharing of knowledge across organizational boundaries, the formation of trusted relationships, problem formulation, and the operational conditions for effective collaboration. **Principal Investigator.**

- $399,988 from the Office of the Secretary of Defense (Office of the Under Secretary of Defense for Acquisition, Technology and Logistics) awarded to the University of Nebraska at Omaha for "*Pilot of Joint Capability Technology Demonstration of Advanced Collaboration Enterprise Service*". Technical demonstration and research into group collaborative processes supporting a national level event. **Principal Investigator.**

- $69,511 from the Department of Homeland Security (DHS) National Center for Studies of Terrorism and Responses to Terrorism (START) awarded to the University of Nebraska at Omaha for "*ISIL Organizational Futures: Leadership and Cyber Profile*". February 2015 - December 2015. Analysis of the alternative futures for ISIL as an organization by evaluating leader succession possibilities (i.e., alternative leadership decision-making style and resulting organizational structure in potential future operating environments. **Co-Principal Investigator.**

- $477,827 in contracts (4 awards) from United States Strategic Command (USSTRATCOM) awarded to the University of Nebraska at Omaha for "*Strategic Leadership Graduate Fellows Program*".

February 2014 – July 2017. The planning and implementation of a customized graduate education-level leader development program for emerging leaders at USSTRATCOM. The program provides a cohesive set of exercises, applications, experiences, and projects geared at increasing core competencies related to diverse issues of National Security such as countering CBRN, anticipating threats to National Security, innovation management, and identifying vulnerabilities in cyber infrastructure. **Co-Principal Investigator.**

- $399,500 grant from the Nebraska Research Initiative awarded to the University of Nebraska at Omaha for "*Advanced Collaboration Enterprise Service (ACES)*". Jun 2015 – Dec 2016. Evaluation of individual cognition in a spatial computing environment, group cognition in the same environment and multi-team system cognition (team of teams) for collaboration. **Principal Investigator.**

- $499,878 contract from United States Strategic Command (USSTRATCOM) awarded to the University of Nebraska at Omaha for "*Decision Support Capabilities for National Leadership*". October 2013 – September 2015. An independent assessment of data integration capabilities to support decision-making and assess risks during National Leadership decision-making. **Principal Investigator.**

- $140,385 grant from the Department of Homeland Security (DHS) Science and Technology Directorate (S&T) Cyber Security Division (CSD) for "*Critical Infrastructure Partnership Culture Study*". August 2014 – June 2015. Develop concepts that are key to the successful development, operation and sustainment of complex public-private partnerships that address critical infrastructure security & resilience. **Co-Principal Investigator.**

- $360,408 grant from the National Science Foundation awarded to the University of Nebraska at Omaha for "*Managing Sustained Online Engagement to Solve Community Problems*". September 2013 – July 2016. The focus of our proposed study is on the support of open collaboration through various managerial, technological, and process intervention strategies. **Co-Principal Investigator.**

- $199,789 contract from United States Strategic Command (USSTRATCOM) awarded to the University of Nebraska at Omaha for "*Convergence of CyberSpace and CWMD Pathways Phases I and II*". October 2013 – September 2014. Create a baseline understanding of an adversary's innovative use of cyber assets to proliferate and employ WMD materials, technology, and expertise. An analytical study that addresses not only the nexus between Non-State Actors (i.e., Violent Extremist Organizations/VEOs) in the proliferation of WMD but also consequences and response capabilities of a simultaneous WMD cyberterrorism attack on national instruments of power. **Co-Principal Investigator.**

- $184,430 grants (3 awards) from the Department of Homeland Security (DHS) National Center for Border Security and Immigration awarded to the University of Nebraska at Omaha for "*Avatar-based Kiosk for Screening*". September 2011 – December 2014. Develop an Avatar kiosk for advanced Human-Computer Interaction. **Principal Investigator.**

- $150,000 grant from the Rural Futures Institute awarded to the University of Nebraska at Omaha for "*Using Crowdlearning for Leadership Development in Rural Communities*". September 2013 –

June 2015. Using online collaborative learning to improve leadership development in rural areas. **Co-Principal Investigator.**

- $87,000 contract from PKITDC awarded to the University of Nebraska at Omaha for "*Mobile Applications and Web-Based Decision Support Systems*". December 2011 - December 2012. Creation of mobile applications for telemedicine decision support and on-line decision support system for foundation resources. **Principal Investigator.**

- $89,000 contract from The University of Nebraska Medical Center and PKITDC awarded to the University of Nebraska at Omaha for "*Support development of NATO Special Operations Forces distance education material*". December 2011 - December 2012. Course development and content delivery. **Principal Investigator.**

- $62,000 grant from the National Science Foundation Center for Identification Technology Research awarded to the University of Arizona, Center for the Management of Information for "*Eye-Gaze Behavior as a Guilty Knowledge Test*". November 2010 - November 2011. Study whether pupilometery and eye gaze behavior can indicate deceptive responses. **Principal Investigator.**

- $1,000,000 grant from the Department of Homeland Security Office of Border Patrol. "*Checkpoint Metrics Proposal: Models of Effectiveness, Community Impacts, and Modeling and Simulation*". Proposed by the University of Arizona. October 2010 - September 2012. Measuring the effectiveness of border patrol checkpoints with greater accuracy and to assess the economic and social impacts of permanent checkpoints on surrounding communities. **Primary Author, Investigator.**

- $49,000 grant from the National Science Foundation Center for Identification Technology Research awarded to the University of Arizona, Center for the Management of Information for "*Human-Agent Interactions in Decision Making*". November 2009 - May 2011. Study the interaction and collaboration of humans and artificially intelligent, adaptive agents. **Principal Investigator.**

- $12.5 Million contract from the Department of Homeland Security awarded to the University of Arizona, Center for the Management of Information to create the "*National Center for Border Security and Immigration*". June 2008 - June 2014. Research technical innovations and policy solutions to secure the northern and southern borders. **Investigator.**

- $70,000 grant from the Air Force Research Lab awarded to MacAulay-Brown for "*Software Red-Team Collaboration Metrics*". Automate the metrics collection for software assessment red-teams. February 2008 - October 2009. **Principal Investigator.**

- $49,000 grant from the National Science Foundation Center for Identification Technology Research awarded to the University of Arizona, Center for the Management of Information for "*Automated Agents for Deception Detection*". November 2007 - November 2008. Create an automated interrogator to detect deception in computer-mediated, synchronous communication. **Principal Investigator.**

- $1.31 Million contract from the Air Force Information Operation Center awarded to MacAulay-Brown for the "*National Air and Space Intelligence Center*". November 2006 – November 2010. Provide intelligence support to on-going, global war on terror. **Principal Investigator**.

- $18.86 Million contract from the Air Force Information Operation Center awarded to MacAulay-Brown for the "*Combat Information Transport System Block 30*". September 2006 - September 2008. Provide 24x7 protection of Air Force Networks. **Technical Input Team Leader, Technical Section Author, Reviewer.**

- $1.48 Million contract from the Air Force Research Lab awarded to MacAulay-Brown for "*Software Protection Assessments Research Initiative*". August 2006 - August 2008. Conduct and document software application protections' strengths and weaknesses. **Principal Investigator.**

- $1.43 Million contract from the Army Anti-Tamper Office awarded to 21st Century Technologies and MacAulay-Brown for the "*Dynamic Obfuscating Virtual Environment Software Protection Research Initiative*". March 2006 - March 2008. Develop new software protection product. **Co-Principal Investigator.**

- $ .57 Million contract from the Advanced Research and Development Activity awarded to Pacific Northwest National Laboratory, MacAulay Brown, Columbia University, Telecordia Inc., and SI Government Solutions for "*Detection of Armored Malicious Logic*". March 2006 - September 2006. Determine if a zero-day malicious logic attack can be identified via static analysis. **Co-Principal Investigator.**

- $ 5.12 Million contract from the National Security Agency awarded to MacAulay-Brown for "*Research and Vulnerability Assessments of Network Devices*". November 2005 - October 2010. Conduct in-depth technical analysis of network devices. **Principal Investigator.**

- $ 4.78 Million contract from the National Security Agency awarded to MacAulay-Brown for "*Research and Vulnerability Assessments of Telecommunication Devices*". May 2005 - October 2010. Conduct in-depth technical analysis of telecommunication devices. **Principal Investigator.**

- $ 2.61 Million contract from Air Force Information Operation Center awarded to MacAulay-Brown for the "*Cyber Operations Management and Execution Tool*". August 2003 - November 2006. Develop cyber operation platform for conduction network operations. **Principal Investigator.**

SPECIAL AWARDS AND HONORS

- Distinguished Professor Designation, University of Nebraska at Omaha, 2021–2024. Awarded for exceptional contributions to research, curriculum, and student development.

- Mutual of Omaha Distinguished Chair of Information Science and Technology, 2017–2023. Awarded for excellence in research in support of the field of Information Science.

- Winner, 2018, Best Paper (one of nine out of 4,400+ submissions) at *HCI in Business, Government, and Organizations.*

- Research Leader of the Year, 2015, National Strategic Research Institute for outstanding leadership of National Defense Research.

- Winner, 2015, College of Information Science and Technology Alumni Outstanding Teaching Award. The award recognizes outstanding teaching and student-centered activities and research. It is awarded to one faculty member in the college per year.

- Winner, 2015, Best Paper, Collaboration Science Track, at HICSS.

- Winner, 2013, AIM Institute Technology Innovator of the Year. The award recognizes significant innovation in the development or application of technology in business or education. The Innovator demonstrates a creative, outside-the-box approach that produces results and influences others to better performance.

- Winner, 2010 INFORMS Information Systems Society (ISS) Design Science Award, "Avatar-based Kiosk for Automated Interviewing and Deception Detection".

- Winner, 2010 Workshop on Information Technologies and Systems (WITS) Best Prototype Demonstration, "Avatar-based Kiosk with Interpersonal Sensors".

- One of Three Finalists, 2010 Arizona Governor's Award for Academic Innovation of the Year, "Creation of the Avatar-based Kiosk for Automated Interviewing".

- AMCIS doctorial consortium participant – Advanced Human-Agent Interaction: Embodied Intelligent Agents for Automated Interviewing

- CMI Graduate Research Fellowship - Competitively awarded based on research and teaching contributions at the University of Arizona (2009-2011)

- National Border Patrol Working Group Participant - The only external participant (non-Border Patrol participant) invited to the Border Patrol Checkpoint Activity Report working group in Washington DC. This invitation only workshop was to improve measurement of Border Patrol checkpoint effectiveness, identify ways to automate metric collection and define requirements for new decision support tools (Sep 2009)

- Science Foundation Arizona Graduate Research Fellowship - Two-year fellowship awarded via statewide competition to students with "the highest potential to drive innovation in Arizona" (2007-2009)

- Seattle Innovation Symposium Consortium Participant - Invitation-only symposium funded by the National Science Foundation concerning factors leading to successful innovation (2008)

- Highest score of all MIS Ph.D. students. Written Preliminary Core Examination (2008), University of Arizona

- Air Force Academy Graduate Fellow - Competitively awarded post graduate fellowship awarded to the top graduate from the Computer Science department from the United States Air Force Academy

- Distinguished Graduate – top 6% (1996) - United States Air Force Academy

Applicant for Professional Practice Professor

Teaching

Semester & Year	Course Number	Course Name	Rating
Spring 2021	ITIN 8100-001	Intermedia	5.0/5.0
Fall 2020	ITIN 8210-001	Design Science and Theory Development	5.0/5.0
Fall 2020	EMIT 8200	Managing IT Innovation	NR/5.0
Spring 2020	ITIN 8000	Tech and Innovation State of the Art	4.5/5.0
Spring 2020	ITIN 4990-001	IT Innovation Capstone	NR/5.0
Fall 2019	ITIN 2220-001	Applied IT Innovation	4.8/5.0
Fall 2019	ITIN 8210-001	Design Science and Theory Development	5.0/5.0
Spring 2019	ITIN 4990-001	IT Innovation Capstone	NR/5.0
Fall 2018	ITIN 1110-001	Introduction to IT Innovation	4.9/5.0
Fall 2018	ITIN 8210-001	Design Science and Theory Development	NR/5.0
Fall 2018	EMIT 8200	Managing IT Innovation	NR/5.0
Spring 2018	ITIN 4990-001	IT Innovation Capstone	5.0/5.0
Spring 2018	ITIN 2990-001	IT Innovation Symposium	4.8/5.0
Fall 2017	ITIN 1110-001	Introduction to IT Innovation	4.9/5.0
Fall 2017	ITIN 8006	Design and Theory	4.9/5.0
Spring 2017	ITIN 2220-001	Applied IT Innovation	5.0/5.0
Spring 2017	ITIN 4990-001	IT Innovation Capstone	4.7/5.0
Fall 2016	ITIN 2990-001	IT Innovation Symposium	4.7/5.0
Fall 2016	ITIN 8006	Design and Theory	4.8/5.0
Spring 2016	ITIN 2220-001	Applied IT Innovation	5.0/5.0
Spring 2016	ITIN 4990-001	IT Innovation Capstone	5.0/5.0
Fall 2015	ISQA 4880-001	Modeling & System Simulation	5.0/5.0
Fall 2015	ITIN 1110-001	Introduction to IT Innovation	5.0/5.0
Spring 2015	ITIN 2220-001	Applied IT Innovation	4.9/5.0
Spring 2015	ITIN 4990-001	IT Innovation Capstone	4.0/5.0
Fall 2014	ISQA 4880-001	Modeling & System Simulation	5.0/5.0
Fall 2014	ITIN 1110-001	Introduction to IT Innovation	4.9/5.0
Spring 2014	ITIN 4990-001	IT Innovation Capstone	4.8/5.0
Spring 2014	ITIN 2220-001	Applied IT Innovation	4.8/5.0
Fall 2013	ISQA 4880-001	Modeling & System Simulation	4.9/5.0
Fall 2013	ITIN 1110-001	Introduction to IT Innovation	4.9/5.0
Spring 2013	ITIN 4990-001	IT Innovation Capstone	5.0/5.0
Spring 2013	ITIN 2220-001	Applied IT Innovation	4.8/5.0
Fall 2012	ITIN 1110-001	Introduction to IT Innovation	5.0/5.0
Spring 2012	ITIN 4990-001	IT Innovation Capstone	5.0/5.0
Spring 2012	ITIN 1110-001	Introduction to IT Innovation	4.9/5.0
Fall 2011	ISQA 4000-001	Introduction to IT Innovation	5.0/5.0
Winter 2010	MIS 373	Operations Management (Univ of Arizona)	4.9/5.0

New Courses Created

ITIN 1110: Introduction to IT Innovation

This course introduces students to tools, techniques, and methods for generating innovative information technology ideas and solutions. It teaches them to think about future possibilities and to practice critically evaluating proposed innovations and ideas. The goal of the course is to increase students' ability to creatively solve challenging problems in new ways, using information technology. This class is inherently interdisciplinary as IT now touches every aspect of modern academic pursuits.

ITIN 2220: Applied IT Innovation

The course extends the concepts learned in the Introduction to IT Innovation course. It moves past idea generation and focuses on market dynamics, identifying and gathering resources, innovation implementation, sustainable innovation models and monetizing innovations. The goal is for students to take their original ideas from concept to initial implementation with thoughts towards commercialization. Upon completing the course, students will have created at least a rudimentary implementation of an original idea and have a defensible plan for how the idea can be monetized.

ITIN 3330: Mobile Software Design and Development

This course covers how to develop applications for mobile platforms and devices with smaller form factors. The history of mobile computing is reviewed and principles of good mobile application design is introduced. The course particularly focuses on innovation using mobile devices and students are expected to develop an original concept and create a prototype implementation of their unique idea as a mobile application. The proposed solutions must be novel and meet a real-world market need. This course is hands-on and examines the development models for current mobile operating systems.

ITIN 4990: Information Technology Innovation Capstone Project Part II

This course serves as Part 2 of the capstone project for the Information Technology Innovation program. Following the designs and business plan developed in Part I: ITIN 4980, the students create a prototype of an IT product or service as well as refine and implement the required business aspects involved in launching their project commercially. This effort is coordinated under the guidance of an advisory committee.

ITIN 8210: Design Science and Theory Development

The purpose of this course is to help students understand theory, theoretical contributions, and design science. We explore design science as a research methodology and Information Technology design theories. Ultimately, students create their own new studies.

ITIN 8950: Information Technology Innovation Capstone Project Part II

This course serves as Part 2 of the capstone project for the Information Technology Innovation program. Following the designs and business plan developed in Part I: ITIN 8940, the students create a prototype of an IT product or service as well as refine and implement the required business aspects involved in launching their project commercially. This effort is coordinated under the guidance of an advisory committee.

EMIT 8200: Managing Information Technology Innovation

This course introduces Executive Master of Science in Information Technology (EMIT) students to the concepts, applications and tools for facilitating IT Innovation, Creativity, Entrepreneurship and Risk Taking.

Courses Updated / Substantial Modifications

ISQA 4880: Systems Simulation and Modeling

The ability to make good decisions is key to individual and organizational success and studying, understanding and improving of decisions is crucial to business success. With the ever-increasing availability of information and information exposure, the course improves students' decision-making process and ability. Decisions are defined as a commitment to a course of action in view of achieving satisfactory results and can be complex, involving arduous processes and large amounts of information. The course objective is to improve the utility or desirable consequences of decisions, both perceived and actual, and to give students processes and tools to model decisions.

ITIN 8100: Intermedia

This course explores concepts of innovative genius, decision-making for complex problems, and intentional creation. The goal is to help students apply principles to create and establish a mindset and habits of innovation. Students will explore curiosity, failure, the connection between art and science, systems thinking, and ambiguity. Students will work through problem formulation, generating objectives and alternatives, uncertainty, and risk, and use tools to structure thinking. Students will learn practical tools for effective decision-making processes. Finally, students will study motivation and the intentional life of creation and innovation.

Other Activities

IT Innovation Minor

I worked on the committee and was the primary author of the IT Innovation minor proposal. The minor consists of 12 undergraduate hours and 9 elective hours. The minor has been approved and is currently available. We estimate there will be approximately 10-15 students each year that will obtain a Minor offered in IT Innovation. The objective of the ITIN Minor is to provide students with a substantive qualification in information technology to augment their respective major and allow them to be innovative as to the application of IT to their learning

and career choices. This minor aligns with the program goal of being student focused. The students are able to better tailor their academic program to their individual needs. The IT Innovation minor allows a student to maintain the major of his or her passion while acquiring the IT skills that the future requires.

IT Innovation Master of Science
Led the development and approval of the Master of Science in IT Innovation. The focus of the degree is the interdisciplinary practice of conceptualizing, designing, prototyping, and fielding an IT-based product or service. It concentrates both on the technological and entrepreneurial aspects of IT products. IT Innovation brings together aspects of Computer Science and Management Information Systems with other disciplines that inform IT design and application such as health care, business, psychology, art, or music.

Dissertation and Thesis Committees

Semester & Year	Student's Name	Dissertation/Thesis Title or Topic Area
2019 – 2023	Braun, Clara	Interventions for Incarcerated Extremists
2021 – 2022	Merino, Luis	When do Machines Become Partners?
2021 – 2022	Schutte, Shane	The Impact of Ubiquitous Technology on Individuals
2021 – 2022	Lai, Brandon	Motivations for Online Participation and Observation
2021 – 2022	Zimmerman, Lauren	Technology Acceptance and Diffusion in Violent Extremist Organizations
2018 – 2021	D'Amato, Alexis	Exploring Influential Mindsets
2018 – 2021	Ovici, Jessica	Resistance to Emerging Technology: How Human Trust Relates to Technology Anxiety
2018 – 2020	McCoy, Connor	HoloPong, New Dimensions in 3D Gaming
2018 – 2020	Mazgaj, Michael	Social Presence, You're My Only Hope for Hologram Telecommunication
2018 – 2020	Parker, Britnee	Influence that Kills: An Examination of the Interaction Between Extremist Leaders' Influence Type and Lethality
2018 – 2020	Breen, Kasi	Viewing Violence: An Exploration of Emotional Reactions to Viewing Terrorist Imagery
2016 – 2020	Logan, Michael	From Simple to Sophisticated: The Organization of Terrorist Groups
2015 – 2019	Elson, Joel	Towards a Theory of Early Trust in Intelligent Systems: Exploring Psychological Factors and Cognitive Processes as Predictors of Trust
2017 – 2019	Windisch, Steven	From Swaddling to Swastikas: Pathways of Radicalization

2017 - 2019	Braun, Clara	Today's Students. Tomorrow's Terrorists: An Examination of Education and Criminal Participation
2017 - 2019	Sproles, Laramie	Malevolent Creativity and Far-Left Violent Extremist Attacks Against Targets in the Agricultural Industry (Thesis)
2014 - 2018	Kocsis, Dave	Ethical considerations for crowdsourcing participants (Dissertation)
2016 - 2017	Fuller, Julia	The Relationship Between VEO Branding and VEO Performance (Thesis)
2016 - 2016	Krell, Matthias	The relationship between the Acceptance of Mobile Payment Services and Consumer Impulsiveness (Thesis)
2014 - 2016	Alothaim, Abdulrahman	Engaging and Sustaining On-line Crowds (Dissertation)
2012 - 2016	Harms, Mackenzie	The Effects of Problem Construction and Information Search on Creative Problem Solving (Thesis / Dissertation)
2013 - 2015	Zongrone, Bianca	Decision-making with comprehensiveness and different communication modalities (Thesis)
2013 - 2015	Nguyen, Cuong	Understanding User Engagement in the Open Collaboration Model of Crowdsourcing (Dissertation)
2012 - 2014	McDonald, Daniel	HCU Design Principles for Technology Systems' Inputs and Outputs for Children with Hemiparesis (Thesis)
2012 - 2013	Read, Aaron	Improving Requirements Generation Thoroughness in User-Centered Workshops: The Role of Prompting and Shared User Stories (Dissertation)
2012 - 2013	Aljafari, Ruba	An Empirical Investigation of Antecedents to Engagement with ICT Enabled Knowledge Transfer (Thesis)
2012	Fuller, Kyle	UNO Mobile Student Assistant (Thesis)

SERVICE

- Award for Distinguished Research or Creative Activity (ADROCA) Committee, Chair (2021)

- Award for Distinguished Research or Creative Activity (ADROCA) Committee, Member (2020)

- IS&T Dean Search Committee, Committee Member (2020 - 2021)

- IT Innovation Faculty Search Committee, Chair (2020 - 2021)

- IT Innovation Faculty Search Committee, Committee Member (2020 - 2021)

- NCITE, Director of Operations Search Committee, Committee Co-Chair (2020)

- NCITE, Director of Communications Search Committee, Committee Co-Chair (2020)

- NCITE, Sub-Contract Manager Search Committee, Committee Co-Chair (2020)

- NCITE, Office Manager Search Committee, Committee Co-Chair (2020)

- Doctoral Program Committee, Committee Member, (2016 – 2019)

- College Academic Committee, Committee Member, (2016 – 2018)

- Created and executed the IT innovation Cup, a competition for local high schools

  - Over $100,000 has been raised for this event
  - Competition has completed 6 years. Over 50 teams have participated in the competition.

- Faculty Sponsor for the First National Bank Reverse Pitch Competition (2017–2019)

- Department Reappointment, Promotion, and Tenure Committee (2015 - 2021)

- IT Innovation Undergraduate Program Committee, Member, (2011 – 2021)

- IT Innovation Undergraduate Curriculum Committee, Member, (2011 – 2021)

- Dean's Advisory Committee, Committee Member, (2016 – 2017)

- IT Innovation Faculty Search Committee, Chair (2015 - 2016)

- Department Graduate Program Committee, Member (2015 - 2017)

- Dean's Advisory committee, Member (2014–2015)

- ISQA Faculty Search Committee, Member (2014)

- IT Innovative Collaborative Student Group, Faculty Advisor, (2012 - 2014, 2017)

- College Strategic Recruiting & Retention Committee, Member, (2012 – 2014)

Professional Service

- 2020–2021, Track-Chair, for the "Human Computer / Robot Interaction" Track at the International Conference for Information Systems

- 2017–Present, Editorial Board Member for the journal *Dynamics of Asymmetric Conflict*

- 2017–Present, Editorial Board Member for the *International Journal of E-Politics*

- 2018–Present, HICSS Doctoral Consortium Mentor

- 2017–Present, Mini-track chair for the "Machines as Teammates" track for the Hawaii International Conference on System Sciences.

- 2012–Present, Mini-track chair for the "Design and Development of Collaboration Technologies" track for the Hawaii International Conference on System Sciences.

- 2015, Associate Editor for the Design Science track for the International Conference on Information Systems (the primary Information Systems annual academic conference).

- Performed 50+ ad hoc peer reviews for *Journal of Management Information Systems (JMIS), Transactions on Affecting Computing, Decision Support Systems (DSS), Knowledge and Information Systems (KAIS), IEEE Intelligent Systems, Group Decision and Negotiation (GDN), Hawai'i*

Applicant for Professional Practice Professor

International Conference on System Sciences (HICSS), Computer Supported Cooperative Work (CSCW), Pacific Asia Conference on Information Systems (PACIS) and others.

- Conference volunteer for the *International Conference on Information Systems (ICIS) 2010*

ADDITIONAL SKILLS

- Fluent in Russian - Lived in the former Soviet Union for 2 years (1992–1994)