

Justin Scott Giboney

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Justin Scott Giboney is an Associate Professor of Information Systems at Brigham Young University (with a courtesy appointment in Information Technology & Cybersecurity). He received his Ph.D. in Management Information Systems from the University of Arizona, and an M.S. and B.S. in Information Systems from Brigham Young University. His research focuses on behavioral information security, deception detection, and knowledge-based systems. Justin has been an investigator on twelve grants totaling over 1.2 million dollars on cybersecurity-related technologies. He has published 50 articles related to information security, deception detection, and decision support. His work has led to a better understanding of how security experts store knowledge, make decisions, and interact with technology. His research has been published in top outlets including, *MIS Quarterly*, *Computers & Security*, *Decision Support Systems*, and *Computers in Human Behavior*.

Research Overview

| | | | |
|-----------------------------------|--------------------------------------|--|-------------------------------------|
| 16 Journal publications | 34 Conference publications | 1,207 / 16 Citations/ h-index | \$1,247,687 Grant funding |
|-----------------------------------|--------------------------------------|--|-------------------------------------|

Professional Service Overview

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| 19 Reviews for journals and conferences in the last 3 years | 7 Editorships or coordination of journal special issues |
|---|---|

Teaching Overview

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|--|--------------------------------|---|
| 4.2 / 5 Teaching effectiveness | 11 Different courses | 11 Dissertation/Theses committees |
|--|--------------------------------|---|

University Service Overview

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|--------------------------------|---|--|
| 60+ Students advised | 40+ Students in student group | 4 Semesters in University Senate |
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Education

PhD in Management Information Systems, University of Arizona (2014).

Minor in Computer Science

Dissertation Title: Development and Application of an Online Tool for Systematic Reviews and Meta-Analyses

Dissertation Committee: Jay Nunamaker (chair), Susan Brown, Joseph Valacich

Dissertation Abstract: Researchers use meta-analyses to find generalizable effect sizes of constructs (Arthur, Jr., Benneit, & Huffcutt, 1994). Meta-analyses are becoming increasingly popular. Even though meta-analyses are becoming more popular, performing them is not a simple or easy process. The hardest parts of a meta-analysis is the manner of data entry, collaboration with other researchers, and preparing the data for analysis (Bax, Yu, Ikeda, & Moons, 2007). While tools exist to perform meta-analyses (e.g., BiostatXL and Comprehensive Meta Analysis), the tools have two design limitations: poor data storage design and poor collaboration techniques. Poor data storage design causes redundancy and consistency errors (Codd, 1970), while poor collaboration techniques cause delays and miscommunications (Nunamaker Jr., 1997). The limitations of current meta-analysis systems generates the research question addressed by this research:
RQ: How can we use better data storage techniques and better collaboration processes to enhance a meta-analysis system?

MS in Information Systems, Brigham Young University (2010).

BS in Information Systems, Brigham Young University (2010).

AA in Liberal Arts, with “Honors”; Sierra College (2005).

Work Experience

Brigham Young University, Associate Professor, 2020-present

- See service section for details

Brigham Young University, Assistant Professor, 2017-2020

- See service section for details

University at Albany, SUNY, Assistant Professor, 2014-2017

- See service section for details

Apple Inc, IS&T Marketing Systems Intern, 2009

- Designed a centralized CAPTCHA service
- Assisted in managing a marketing permission project to increase data integrity
- Designed system flow diagrams that heightened understanding of systems and helped projects receive business approval

Western Botanicals, IS Department, Marketing, 2003-2010

- Developed a program to print labels, saving the company 12 hours a week in labor
- Shaped and implemented a year-long marketing plan that lead to a 10% growth in sales and revenue
- Translated a website with over 20 different articles, ranking the Spanish website number one in Google’s search for “productos herbales” (herbal products)

Research and Publishing

Published Journal Articles

* Student co-author

16. Ryan M. Schuetzler, G. Mark Grimes, **Justin Scott Giboney**, Holly K. Rosser* (accepted). Deciding Whether and How to Deploy Chatbots. *MIS Quarterly Executive*, accepted January 2021. Impact factor: 4.088 (2019), 3.722 (5-year) – Clarivate Analytics
H5-index: 25 (2021) – Google Scholar

15. **Justin Scott Giboney**, Jason K. McDonald, Jonathan Balzotti, Derek L. Hansen, Desiree M. Winters, & Elizabeth Bonsignore (2021). Increasing Cybersecurity Career Interest through Playable Case Studies. *TechTrends*, 29.
<https://link.springer.com/article/10.1007/s11528-021-00585-w>
H5-index: 35 (2021) – Google Scholar

14. G. Mark Grimes, Ryan M. Schuetzler, & **Justin Scott Giboney** (2021). Mental models and expectation violations in conversational AI interactions. *Decision Support Systems*, accepted January 2021.
<https://www.sciencedirect.com/science/article/pii/S0167923621000257>
Impact factor: 4.721 (2019), 5.434 (5-year) – Clarivate Analytics
H5-index: 60 (2021) – Google Scholar

13. Ryan M. Schuetzler, G. Mark Grimes, & **Justin Scott Giboney** (2020). The impact of chatbot conversational skill on engagement and perceived humanness. *Journal of Management Information Systems*, 37 (3), pp. 875-900
<https://www.tandfonline.com/doi/pdf/10.1080/07421222.2020.1790204>
Impact factor: 3.949 (2019), 5.399 (5-year) – Clarivate Analytics
H5-index: 41 (2020) – Google Scholar

12. Ryan Schuetzler, G. Mark Grimes, & **Justin Scott Giboney** (2019). The effect of conversational agent skill on user behavior during deception. *Computers in Human Behavior*, 97, pp. 250-259
<https://www.sciencedirect.com/science/article/pii/S0747563219301311>
Impact factor: 3.536 (2017), 4.417 (5-year) – Clarivate Analytics
H5-index: 110 (2019) – Google Scholar

11. Ryan Schuetzler, **Justin Scott Giboney**, G. Mark Grimes, & Jay F. Nunamaker, Jr. (2018). The Influence of Conversational Agent Embodiment and Conversational Relevance on Socially Desirable Responding. *Decision Support Systems*, 114, pp. 94-102.
<https://www.sciencedirect.com/science/article/pii/S0167923618301404>
Impact factor: 3.565 (2017), 4.574 (5-year) – Clarivate Analytics
H5-index: 67 (2018) – Google Scholar

10. Victoria Kisekka & **Justin Scott Giboney** (2018). The Effectiveness of Health Care Information Technologies: Evaluation of Trust, Security Beliefs, and Privacy as Determinants of Health Care Outcomes. *Journal of Medical Internet Research*, 20 (4), e107, pp. 1-11.
<https://www.jmir.org/2018/4/e107/>
Impact factor: 5.175 (2016), 5.835 (5-year) – Clarivate Analytics
H5-index: 72 (2018) – Google Scholar
09. Guy Dinesh Fernando, **Justin Scott Giboney**, Richard A. Schneible (2018). Voluntary Disclosures and Market Response to Earning Announcements. *Review of Accounting and Finance*, 17 (1), pp. 2-17.
<http://www.emeraldinsight.com/doi/pdfplus/10.1108/RAF-06-2016-0087>
H5-index: 10 (2018) – Google Scholar
08. Kathryn Carl Payne, Mark Keith, Ryan M. Schuetzler, **Justin Scott Giboney** (2017). Examining the Learning Effects of Live Streaming Video Game Instruction over Twitch. *Computers in Human Behavior*, 77 (2017), pp. 95-109.
<http://www.sciencedirect.com/science/article/pii/S0747563217304971>
Impact factor: 3.435 (2016), 4.252 (5-year) – Clarivate Analytics
H5-index: 95 (2018) – Google Scholar
07. Jay F. Nunamaker Jr., Nathan W. Twyman, **Justin Scott Giboney**, Robert Briggs (2017). Breaking out of the Design Science Box: High-Value Impact through Multidisciplinary Design Science Programs of Research. *MIS Quarterly*, 41 (2), pp. 335-351.
<http://misq.org/creating-high-value-real-world-impact-through-systematic-programs-of-research.html>
Impact factor: 7.268 (2016), 12.222 (5-year) – Clarivate Analytics
H5-index: 79 (2018) – Google Scholar
06. **Justin Scott Giboney**, Jeffrey Gainer Proudfoot, Sanjay Goel, and Joseph S. Valacich (2016). The Security Expertise Assessment Measure (SEAM): Developing a Scale for Hacker Expertise. *Computers & Security*, 60 (2016) pp. 37-51.
<http://www.sciencedirect.com/science/article/pii/S0167404816300323>
Impact factor: 1.640 (2015), 1.783 (5-year) – Clarivate Analytics
H5-index: 40 (2018) – Google Scholar
05. Judee K. Burgoon, Joe Bonito, Gregory D. Moody, Paul Benjamin Lowry, Sean L. Humphreys, James Gaskin, **Justin Scott Giboney** (2016). Application of Expectancy Violations Theory to Communication with and Judgments of Embodied Agents during Decision-Making. *International Journal of Human-Computer Studies*, 91, July 2016, pp. 24-36
<http://www.sciencedirect.com/science/article/pii/S1071581916000227>
Impact factor: 1.476 (2015), 2.097 (5-year) – Clarivate Analytics
H5-index: 35 (2018) – Google Scholar

04. Judee K. Burgoon, William Mayew, **Justin Scott Giboney**, Aaron Elkins, Kevin Moffitt, Lee Spltzley, Michael Byrd, and Bradley Dorn (2016). Which Spoken Language Markers Identify Deception in High-Stakes Settings? Evidence from Earnings Conference Calls. *Journal of Language and Social Psychology*, 35(2) pp. 123-157.

<http://jls.sagepub.com/content/35/2/123.full.pdf>

Impact factor: 1.324 (2015), 1.993 (5-year) – Clarivate Analytics

H5-index: 19 (2018) – Google Scholar

03. **Justin Scott Giboney**, Susan A. Brown, Paul Benjamin Lowry, and Jay F. Nunamaker Jr. (2015) User Acceptance of Knowledge-Based System Recommendations: Explanations, Arguments, and Fit. *Decision Support Systems*, 72(1) pp. 1-10.

<http://www.sciencedirect.com/science/article/pii/S0167923615000251>

Impact factor: 2.313 (2014), 2.933 (5-year) – Clarivate Analytics

H5-index: 70 (2018) – Google Scholar

02. Paul Benjamin Lowry, **Justin Scott Giboney**, Ryan Schuetzler, Tom Gregory, and John Romney (2015). Is Trust Always Better than Distrust? The Potential Value of Distrust in Newer Virtual Teams Engaged in Short-Term Decision-Making. *Group Decision and Negotiation*, 24(4) pp. 723-752.

<http://link.springer.com/article/10.1007/s10726-014-9410-x>

Impact factor: 2.120 (2014), 1.721 (5-year) – Clarivate Analytics

H5-index: 24 (2018) – Google Scholar

01. Jordan B. Barlow, **Justin Scott Giboney**, Mark Jeffery Keith, David W. Wilson, Ryan M. Schuetzler, Paul Benjamin Lowry, and Anthony Vance (2011). Overview and Guidance on Agile Development in Large Organizations. *Communications of the Association for Information Systems*, 29(1) pp. 25-44.

<http://aisel.aisnet.org/cais/vol29/iss1/2/>

H5-index: 28 (2018) – Google Scholar

Editorial Articles

05. **Justin Scott Giboney**, Robert O. Briggs, Jay F. Nunamaker Jr. (2019). Engineering Artifacts and Processes of Information Systems, *Journal of Management Information Systems*, 36(1) pp. 11-13.

04. **Justin Scott Giboney**, Robert O. Briggs, Jay F. Nunamaker Jr. (2017). Special Issue: Creating Social Value with Information. *Journal of Management Information Systems*, 34(4) pp. 935-938.

<http://www.tandfonline.com/doi/full/10.1080/07421222.2017.1393302>

03. **Justin Scott Giboney**, Robert O. Briggs, Jay F. Nunamaker Jr. (2017). Guest Editors' Introduction: On designing tools to answer great Information Systems research questions. *Journal of Management Information Systems*, 33(4) pp. 938-941.

02. Jay F. Nunamaker Jr., Judee K. Burgoon, **Justin Scott Giboney** (2016). Special Issue: Information Systems for Deception Detection. *Journal of Management Information Systems*, 33(2) pp. 327-331.

01. Robert O. Briggs, Jay F. Nunamaker Jr., **Justin Scott Giboney** (2015). On the Role of Applied Science/Engineering Research in Information Systems. *Journal of Management Information Systems*, 32(3) pp. 3-9.

Conference and Workshop Papers

* Student co-author

34. **Justin Scott Giboney**, Bonnie Anderson, Geoffrey Wright, Shayna Oh*, Quincy Taylor*, Megan Warren*, & Kylie Johson* (2022). Barriers to a Cybersecurity Career: Analysis across Career Stage and Gender. *Dewald Roode Information Security Workshop*.
100% acceptance rate in 2022.

33. Ryan M. Schuetzler, **Justin Scott Giboney**, & G. Mark Grimes (2022). Design of a Chatbot Social Engineering Victim. *55th Annual Hawaii International Conference on System Sciences, Hawaii, January 3-7*. Accepted (August 2021).
~50% acceptance rate
H5-index: 52 (2021) – Google Scholar

32. **Justin Scott Giboney**, Geoffrey Wright, Ersin Dincelli, Quincy Taylor*, & Dallin Christensen* (2021). The youth cybersecurity concepts instrument (YCCI): Developing a scale for the GenCyber cybersecurity concepts. *Americas Conference on Information Systems – Workshop on Information Security and Privacy*.
H5-index: 26 (2021) – Google Scholar

31. **Justin Scott Giboney**, Ryan M. Schuetzler, & G. Mark Grimes (2021). Developing a measure of adversarial thinking in social engineering scenarios. *Americas Conference on Information Systems – Workshop on Information Security and Privacy*.
H5-index: 26 (2021) – Google Scholar

30. **Justin Scott Giboney**, Ryan M. Schuetzler, G. Mark Grimes, & Isaac Dayley* (2021). A Social Engineering Victim Chatbot to Teach Adversarial Thinking. *Americas Conference on Information Systems 2021*.
H5-index: 26 (2021) – Google Scholar

29. Jacob Siebach* & **Justin Scott Giboney** (2021), The Abacus: A New Architecture for Policy-based Authorization. *54th Annual Hawaii International Conference on System Sciences, Hawaii, January 5-8*. Accepted (October 2020).
<https://scholarspace.manoa.hawaii.edu/bitstream/10125/71469/0690.pdf>
~50% acceptance rate
H5-index: 45 (2020) – Google Scholar

28. Russel Havens* & **Justin Scott Giboney** (2020), Log Management Best Practices: A Delphi Study. *Dewald Roode Information Security Workshop*.
<https://ifip.byu.edu/ifip2020.html>
75% acceptance rate in 2020

27. **Justin Scott Giboney**, Kyle Adams*, William Atwood*, Joseph Belyeu*, Caleb Crandall*, Joshua Keller* (2020). Design requirements for a cloud-based automated red team in a cyber range for security operations training. *Americas Conference on Information Systems 2020*.
H5-index: 23 (2020) – Google Scholar
26. Michael Watson*, Quincy Taylor*, & **Justin Scott Giboney** (2020). Measuring Computer Forensics Skill. *Americas Conference on Information Sciences 2020*.
H5-index: 23 (2020) – Google Scholar
25. Mark G. Grimes, Ryan M. Schuetzler, **Justin Scott Giboney** (2019). Man or Machine? Expectancy violations in conversational AI interactions. *ICIS JAIS-MISQ Joint Special Issue Workshop on Artificial Intelligence in Organizations*.
24. Ryan S. Schuetzler, Mark G. Grimes, **Justin Scott Giboney** (2019). When better is not better: Designing conversational AI for consumer-facing applications. *ICIS JAIS-MISQ Joint Special Issue Workshop on Artificial Intelligence in Organizations*.
23. **Justin Scott Giboney**, Derek Hansen, Jason Mcdonald, Jonathan Balzotti, Johnson Tanner*, Desiree Winters*, Elizabeth Bonsignore (2019). Theory of Experiential Career Exploration Technology (TECET): Increasing cybersecurity career interest through playable case studies. *52nd Annual Hawaii International Conference on System Sciences*, Hawaii, January 8-11.
<https://scholarspace.manoa.hawaii.edu/handle/10125/59928>
~50% acceptance rate.
H5-index: 42 (2019) – Google Scholar
22. Jason Mcdonald, Derek Hansen, Jonathan Balzotti, Johnson Tanner*, Desiree Winters*, **Justin Scott Giboney**, Elizabeth Bonsignore (2019). Designing Authentic Cybersecurity Learning Experiences: Lessons from the Cybermatics Playable Case Study. *52nd Annual Hawaii International Conference on System Sciences*, Hawaii, January 8-11.
<https://scholarspace.manoa.hawaii.edu/handle/10125/59689>
~50% acceptance rate.
H5-index: 42 (2019) – Google Scholar
21. Jared Meyers*, Derek Hansen, **Justin Scott Giboney**, Dale Rowe (2018). Training Future Cyber Security Professionals in Spear Phishing using SiEVE. *Annual Conference on Information Technology Education (SIGITE)*.
H5-index: 9 (2018) – Google Scholar
20. Ryan M. Schuetzler, Mark G. Grimes, **Justin Scott Giboney** (2018). An Investigation of Conversational Agent Relevance, Presence, and Engagement. *Americas Conference on Information Sciences 2018*. <http://aisel.aisnet.org/amcis2018/>
H5-index: 22 (2018) – Google Scholar

19. Ryan M. Schuetzler, Mark G. Grimes, **Justin Scott Giboney** (2018). The Influence of Conversational Agents on Socially Desirable Responding. *51st Annual Hawaii International Conference on System Sciences*, Hawaii, January 5-8 (accepted 19 Aug 2017).
<https://scholarspace.manoa.hawaii.edu/bitstream/10125/49925/1/paper0038.pdf>
~50% acceptance rate.
H5-index: 42 (2018) – Google Scholar
18. Victoria Kisekka, **Justin Scott Giboney** (2016). The health-care socio-technical system: An extension of the DeLone McLean model. *SIGHealth Workshop at the 2016 International Conference on Information Systems (ICIS)*.
17. **Justin Scott Giboney** (2016). Predicting Secure Home Wireless Behavior. *The Dewald Roode Workshop on Information Systems Security Research, IFIP WG8.11/WG11.13*, Albuquerque, NM, 2016.
<http://ifip.byu.edu/ifip2016.html>
16. **Justin Scott Giboney**, Adem Kotil* (2016). Theory of Successful Behavior: A Theoretical Explanation of Successful novice cyber security practitioners. *Annual Symposium on Information Assurance (ASIA)*.
15. Joseph Buckman, **Justin Scott Giboney**, Yuan Hong (2015). Social media is weakening passwords. *Workshop on Information Security and Privacy (WISP) at the 2015 International Conference on Information Systems (ICIS)*.
14. **Justin Scott Giboney**, David Wilson, Alexandra Durcikova. An Individual's Views of the Right to Privacy of Other Individuals, Companies, and Governments: A Theoretical Perspective. *The Dewald Roode Workshop on Information Systems Security Research, IFIP WG8.11/WG11.13*, Newark, DE, 2015 (accepted 31 Jul 2015). <http://ifip.byu.edu/ifip2015.html>
13. **Justin Scott Giboney**, Jeffrey Gainer Proudfoot, Sanjay Goel, and Joseph S. Valacich. Measuring Hacking Ability: Hacking Self-Efficacy and Perceived Hacking Ability, *Conference on Digital Forensics Security, and Law 2015* (accepted 6 Feb 2015).
12. Ryan Schuetzler, Mark Grimes, **Justin Scott Giboney**, Joseph Buckman. An automated interviewing chatbot for deception detection, *International Conference on Information Systems 2014* (accepted 26 Sep 2014).
11. **Justin Scott Giboney**, David Wilson, Alexandra Durcikova. An Individual's Views of the Right to Privacy of Other Individuals, Companies, and Governments: A Theoretical Perspective, *Americas Conference on Information Sciences 2014* (accepted 8 Apr 2014).
<http://aisel.aisnet.org/amcis2014/ISSecurity/>
10. **Justin Scott Giboney**, David Wilson, Alexandra Durcikova. An Individual's Views of the Right to Privacy of Other Individuals, Companies, and Governments: A Theoretical Perspective, (accepted *The Dewald Roode Workshop on Information Systems Security Research, IFIP WG8.11/WG11.13*, Newcastle, U.K., 2014 (accepted 31 Mar 2014). <http://ifip.byu.edu/ifip2014.html>

09. Judee K. Burgoon, William Mayew, **Justin Scott Giboney**, Aaron Elkins, Kevin Moffitt, Justin Williams, Lee Splitzley, Michael Byrd, and Bradley Dorn. Applying Linguistic and Vocalic Analysis to Company Conference Calls to Detect Fraud-Related Statements. in *Jensen, M., Meservy, T., Burgoon, J., and Nunamaker, J., Report of the HICSS-47 Rapid Screening Technologies, Deception Detection and Credibility Assessment Symposium*, January 2014. <http://www.hicss.hawaii.edu/reports.htm>
08. **Justin Scott Giboney**, Samuel Birk, Jay F. Nunamaker Jr., and Judee K. Burgoon. Development and Application of an Online Tool for Systematic Reviews and Meta-Analyses. in *Jensen, M., Meservy, T., Burgoon, J., and Nunamaker, J., Report of the HICSS-47 Rapid Screening Technologies, Deception Detection and Credibility Assessment Symposium*, January 2014. <http://www.hicss.hawaii.edu/reports.htm>
07. **Justin Scott Giboney**, Alexandra Durcikova, and Robert Zmud (2013). What Motivates Hackers? Insights from the Awareness-Motivation-Capability Framework and the General Theory of Crime, *The Dewald Roode Workshop on Information Systems Security Research, IFIP WG8.11/WG11.13*, Buffalo, NY, 2013 (accepted 6 Aug 2013). <http://ifip.byu.edu/ifip2013.html>
06. Jay F. Nunamaker Jr., Nathan W. Twyman, and **Justin Scott Giboney** (2013). Breaking out of the Design Science Box: High-Value Impact through Multidisciplinary Design Science Programs of Research, *Americas Conference on Information Sciences 2013* (accepted 30 Apr 2013). <http://aisel.aisnet.org/amcis2013/ResearchMethods/GeneralPresentations/1/>
05. **Justin Scott Giboney** and Alexandra Durcikova (2012). What Motivates Hackers? Insights from Self-Determination Theory and the General Theory of Crime, *The Dewald Roode Workshop on Information Systems Security Research, IFIP WG8.11/WG11.13*, Provo, UT, 2012 (accepted 7 Aug 2012). <http://ifip.byu.edu/ifip2012.html>
04. Jay F. Nunamaker, Jr., Judee K. Burgoon, Nathan W. Twyman, Jeffrey Gainer Proudfoot, Ryan Schuetzler, and **Justin Scott Giboney** (2012). Establishing a Foundation for Automated Human Credibility Screening, *2012 IEEE International Conference on Intelligence and Security Informatics (ISI)*, January 2012. <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6284309>
03. Kevin C. Moffitt, **Justin Scott Giboney**, Emma Ehrhardt, Judee K. Burgoon, and Jay F. Nunamaker Jr. Structured Programming for Linguistic Cue Extraction (SPLICE), in *Jensen, M., Meservy, T., Burgoon, J., and Nunamaker, J., Report of the HICSS-45 Rapid Screening Technologies, Deception Detection and Credibility Assessment Symposium*, January 2012, pp. 103 <http://www.hicss.hawaii.edu/reports.htm>
02. **Justin Scott Giboney**, Susan Brown, and Jay F. Nunamaker Jr. (2012). User Acceptance of Knowledge-Based System Recommendations: Explanations, Arguments, and Fit, *45th Annual Hawaii International Conference on System Sciences*, Hawaii, January 5-8 (accepted 17 Aug 11). <http://www.computer.org/csdl/proceedings/hicss/2012/4525/00/4525d719-abs.html>
01. Paul Benjamin Lowry, **Justin Scott Giboney**, Ryan Schuetzler, Jacob Richardson, Tom Gregory, John Romney, and Bonnie Anderson (2009). The Value of Distrust in Computer-Based Decision-Making Groups, *43rd Annual Hawaii International Conference on System Sciences*, Hawaii, January 5-8 (accepted 16 Aug 09, Nominated for Best Paper). http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1487345

Book Chapters

02. Desiree M. Winters*, Jason K. McDonald, Derek L. Hansen, T. W. Johnson, Jon Balzotti, Elizabeth Bonsignore, & **Justin Scott Giboney**, (2020). The Playable Case Study: An Online Simulation for Skill and Attitudinal Learning. In Educational Technology Beyond Content (pp. 127-140). Springer, Cham.
01. **Justin Scott Giboney** (2018). Grouping Cognitive Processes of Deception: A Meta-analysis in World Scientific Book Chapters. Editors: Sanjay Goel, Yuan Hong, Justin Scott Giboney, and Pradeep Atrey, pp. 3-26.

Conference Posters

01. Jeffrey Gainer Proudfoot, **Justin Scott Giboney**, Ryan M. Schuetzler, and Alexandra Durcikova. Trends in Phishing Attacks: Suggestions for Future Research. Americas Conference on Information Sciences 2011. http://aisel.aisnet.org/amcis2011_submissions/424/

Grants

12. GenCyber – Students, National Science Foundation (NFS) and National Security Association (NSA), \$149,471, September 2022 – May 2024. This funding is to run a cybersecurity camp for K-12 teachers. **Justin Scott Giboney** (PI) and Geoffrey Wright (co-Pi).
11. GenCyber – Students, National Science Foundation (NFS) and National Security Association (NSA), \$150,000, September 2022 – May 2024. This funding is to run a cybersecurity camp for 13-18 year old boys and girls. **Justin Scott Giboney** (PI) and Geoffrey Wright (co-Pi).
10. GenCyber – Students, National Science Foundation (NFS) and National Security Association (NSA), \$94,724, July 2020 – July 2021. This funding is to run a cybersecurity camp for 13-18 year old boys and girls. **Justin Scott Giboney** (PI) and Geoffrey Wright (co-Pi).
09. GenCyber – Teachers, National Science Foundation (NFS) and National Security Association (NSA), \$67,074, July 2020 – July 2021. This funding is to run a cybersecurity camp for K-12 teachers. **Justin Scott Giboney** (PI) and Geoffrey Wright (co-Pi).
08. Collaborative Research: Collaboration in the Future of Work: Developing Playable Case Studies to Improve STEM Career Pathways, National Science Foundation (NSF), \$521,418, July 2019 – June 2022. The goals of the project are to develop and evaluate two undergraduate Playable Case Studies (PCSs) focused on human-centered cybersecurity and disaster response. Derek Hansen (PI), **Justin Scott Giboney** (co-PI), and Amanda Hughes (co-PI).
07. Cybersecurity Playable Case Study to Promote Digital Forensics Education, Brigham Young University – Mentoring Environment Grant, \$20,000, January 2018 – December 2019. Create an online instructional environment to introduce digital forensics. **Justin Scott Giboney**, Derek Hansen.
06. Chatbot round 2, National Science Foundation (NSF) Center for Identification Technology

Research (CITeR) awarded to the University of Arizona, Center for the Management of Information, \$40,000, June 2014 – June 2015. Create a chatbot to look at disclosure of personal information. Ryan Schuetzler, Mark Grimes, **Justin Scott Giboney**, Joseph Buckman, Jay Nunamaker.

05. Mobile Interviewing Agent round 2, National Science Foundation (NSF) Center for Identification Technology Research (CITeR) awarded to the University of Arizona, Center for the Management of Information, \$40,000, June 2014 – June 2015. Look at mobile technology features for detecting deception. Ryan Schuetzler, Mark Grimes, **Justin Scott Giboney**, James Maquardson, Jay Nunamaker.

04. Remote Heart Rate Identification to Detect Deception, National Science Foundation (NSF) Center for Identification Technology Research (CITeR) awarded to the University of Arizona, Center for the Management of Information, \$40,000, June 2013 – June 2014. Test the effectiveness of heart-rate detection via a webcam. **Justin Scott Giboney**, Jeff Proudfoot, Ryan Schuetzler, Steven Pentland, Judee Burgoon.

03. Lie to Me ChatterBot Style, National Science Foundation (NSF) Center for Identification Technology Research (CITeR) awarded to the University of Arizona, Center for the Management of Information, \$40,000, June 2013 – June 2014. Create a chatbot to do personal interviews. Ryan Schuetzler, Mark Grimes, **Justin Scott Giboney**, Joseph Buckman.

02. Mobile Interviewing Agent, National Science Foundation (NSF) Center for Identification Technology Research (CITeR) awarded to the University of Arizona, Center for the Management of Information, \$45,000, November 2012 – November 2013. Create an automated interviewing agent on a mobile platform. James Maquardson, Ryan Schuetzler, Mark Grimes, **Justin Scott Giboney**, Jay Nunamaker

01. Validating the SPLICE Implementation of Automated Textual Analysis, National Science Foundation (NSF) Center for Identification Technology Research (CITeR) awarded to the University of Arizona, Center for the Management of Information, \$40,000, November 2011 – November 2012. Create a custom dictionary upload system for SPLICE (<http://splice.cmi.arizona.edu>). Kevin C. Moffitt, **Justin Scott Giboney**, Emma Ehrhardt, Judee K. Burgoon, and Jay F. Nunamaker.

Invited Presentations

04. Justin Scott Giboney & Geoff Wright. The Immersive Cybersecurity Experience (ICE). Gen-Cyber Annual Conference. 23 September 2021.

03. Derek Hansen & Justin Scott Giboney. Cybermatics: A penetration testing simulation for novice students. CAE Tech Talk 2020. 15 October 2020.

02. Justin Scott Giboney & Dale Rowe. BYU Cyber Security. National Cyber Analyst Competition 2018. 13 April 2018.

01. Justin Scott Giboney. Integrating Cybersecurity Across the Curriculum. UACTE 2018: The

Teaching Experience

| Course | Semester/Year | # Students | Rating |
|----------------------------------|---------------|------------|-----------|
| IS 590R – Red Team vs Blue Team | Fall 2021 | 32 | 4.8/5 |
| IS 565 – Digital Forensics | Fall 2021 | 33 | 4.3/5 |
| IT&C 515 – Competition Team | Winter 2021 | 8 | 4.4/5 |
| IT&C 566 – Digital Forensics | Winter 2021 | 20 | 4.0/5 |
| IT&C 366 – Information Assurance | Winter 2021 | 46 | 4.0/5 |
| IT&C 566 – Digital Forensics | Fall 2020 | 23 | 3.7/5 |
| IT&C 515 – Red Team vs Blue Team | Fall 2020 | 23 | 4.4/5 |
| IT&C 566 – Digital Forensics | Winter 2020 | 9 | 4.4/5 |
| IT&C 515 – Competition Team | Winter 2020 | 11 | 4.4/5 |
| IT&C 366 – Information Assurance | Winter 2020 | 58 | 3.1/5 |
| IT&C 566 – Digital Forensics | Fall 2019 | 8 | 4.7/5 |
| IT&C 515 – Competition Team | Fall 2019 | 5 | 4.3/5 |
| IT&C 291 - Seminar | Fall 2019 | 149 | 4.2/5 |
| IT 350 – Database Applications | Winter 2019 | 55 | 4.6/5 |
| IT 566 – Digital Forensics | Winter 2019 | 29 | 4.1/5 |
| IT 210A – Intro to Web Systems | Fall 2018 | 30 | 3.8/5 |
| IT 210B – Intro to Web Systems | Fall 2018 | 30 | 4.1/5 |
| IT 515R – Cyber Analyst | Fall 2018 | 16 | 4.8/5 |
| IT 350 – Database Applications | Winter 2018 | 47 | 3.7/5 |
| IT 566 – Digital Forensics | Winter 2018 | 22 | 4.4/5 |
| IT 492R – Cyber Analyst | Winter 2018 | 5 | 4.4/5 |
| IT 210 A/B – Intro to | Fall 2017 | 26 | Not rated |

| Course | Semester/Year | # Students | Rating |
|--|---------------|------------|-----------|
| Web Systems | | | |
| BFOR 304 – Network and Mobile Forensics (2 sections) | Spring 2017 | 35 | 4.6/5 |
| BFOR 100 – Intro to IS (2 sections) | Fall 2016 | 42 | 3.8/5 |
| BFOR 304 – Network and Mobile Forensics (2 sections) | Spring 2016 | 38 | 3.8/5 |
| BFOR 100 – Intro to IS (2 sections) | Fall 2015 | 44 | 3.7/5 |
| BFOR 100 – Intro to IS (2 sections) | Spring 2015 | 43 | 3.6/5 |
| BFOR 300 – Databases for Digital Forensics | Fall 2014 | 6 | Not rated |
| BFOR 100 – Intro to IS | Fall 2014 | 28 | 4.3/5 |
| CSC 337 – Web Programming | Fall 2014 | 89 | 4.1/5 |
| MIS 304 – Using and Managing IS | Summer 2013 | 25 | 4.6/5 |
| MIS 304 – Using and Managing IS | Summer 2012 | 44 | 4.5/5 |

Doctoral and Theses Advisement: Completed

12. Thesis committee chair for James LAKKO at Brigham Young University (2021)
11. Thesis committee chair for Dezhang WEN at Brigham Young University (2021)
10. Thesis committee chair for Jacob SIEBACH at Brigham Young University (2021)
09. Thesis committee chair for Mike WATSON at Brigham Young University (2021)
08. Thesis committee chair for Andrew THOMAS at Brigham Young University (2019)
07. Thesis committee member for CJ CORNEL at Brigham Young University (2019)
06. Thesis committee member for Cara CORNEL at Brigham Young University (2019)
05. Thesis committee member for Justin SNYDER at Brigham Young University (2018)
04. Thesis committee member for Jared MYERS at Brigham Young University (2018)
03. Thesis committee member for Tanner JOHNSON at Brigham Young University (2018)
02. Thesis committee member for Colby GOETTEL at Brigham Young University (2017)
01. Ph.D. (IS) dissertation committee member (external) for Ersin DINCILLI at University at Albany, SUNY (USA), served with advisor Professor Shobha Chengular-Smith (May 2017–August 2018, placed at University of Colorado, Boulder)

Awards and Honors

University at Albany, School of Business 2017 Research Award

2013 Winner of the James F. LaSalle Teaching Award - Given to the top performing MIS graduate student instructor

Developed Software

PCS-CMS: a web system to run experiential learning environments.

OrionShoulders: an Online Meta-Analysis Tool. Orion Shoulders meta-analysis software offers an easy-to-use yet powerful interface, designed to walk you through the meta-analysis process and help you avoid unnecessary repetitive tasks.

SPLICE. SPLICE is a linguistic analysis tool that incorporates dictionaries and advanced algorithms to study linguistic behavior.

Service

University Competition Team Coaching

- 2022 National Collegiate Cyber Defense Competition – Team place 9th at nationals.
- 2021 Collegiate Social Engineering Competition – Team placed 2nd nationally.
- 2021 NIATEC – Team accepted into competition.
- 2021 National Collegiate Cyber Defense Competition – Team place 8th at nationals.
- 2020 Cyberforce – Three individual competitors. Melanie Pierce placed 35th of 400 nationally.
- 2020 Collegiate Social Engineering Competition – Team accepted into competition
- 2020 National Collegiate Cyber Defense Competition – Team passed qualifiers
- 2019 Cyberforce – Team accepted into competition
- 2019 NIATEC Invitational – Team accepted into competition
- 2018 National Cyber Analyst Challenge – Team accepted into competition

University Service

- Brigham Young University (IS) – Cybersecurity Student Association advisor 2020-present
- Brigham Young University (IS) – Department master's internship chair 2021-present
- Brigham Young University – Department hiring chair 2020-2021
- Brigham Young University – Department lab registration software 2018
- Brigham Young University – Department Student Financial Aid Committee 2018-2021
- Brigham Young University – Cybersecurity Girls Camp Committee 2017-Present
- Brigham Young University – Department Hiring Committee 2017-2020
- Brigham Young University – Faculty advisor, Information Technology Student Association (ITSA) 2017-2019
- University at Albany – Business School commencement selection committee 2014-2017
- University at Albany – University Senate, Curriculum & Instruction committee, including chair 2015-2017
- University at Albany – Business School, Curriculum & Instruction committee
- University at Albany – Faculty advisor, Digital Forensics Association
- University of Arizona – Core Exam coordinator 2012-2013
- University of Arizona – Created and developed a PhD wiki for the students

Editorial Service

- Program committee for Dewald Roode Information Security Workshop (2022)
- Associate Editor for Journal of Association for Information Science and Technology (JASIST) (2018 - present)
- Program Committee Member for the 2022 Dewald Roode Workshop (2022)
- Special Issue Editor for HICSS special issue of Journal of Management Information Systems (JMIS) (2013 - 2020)
- Special Issue Editor for Deception Detection special issue of Journal of Management Information Systems (JMIS) (2016)

Conference Work

- Americas Conference on Information Systems (Co-Chair of Mini-Track), 2017
- Americas Conference on Information Systems (Co-Chair of General Track), 2016

Peer Review Work

- Management Information Systems Quarterly (MISQ), 2019
- CHIPlay, 2018
- Decision Support Systems (DSS), 2018-2021
- Information Systems Frontiers, 2021
- Journal of the Association for Information Systems (JAIS), 2017-2018
- International Journal of Information Technology and Decision Making (IJITDM), 2016
- Journal of Strategic Information Systems (JSIS), 2015
- Pre-ICIS: Workshop on Information Security and Privacy (WISP), 2015, 2017
- Transactions on Human Computer Interaction (THCI), 2015-2016
- Communications of the Association for Information Systems (CAIS), 2015-2016
- International Conference on Wirtschaftsinformatik (WI), 2015
- Information & Management (I&M), 2014-2016, 2019, 2021
- The Data Base for Advances in Information Systems (DATA BASE), 2014-2015, 2017
- Information Technology & Management (IT&M), 2014-2015
- European Journal of Information Systems (EJIS), 2014, 2019
- Group Decision and Negotiation (GDN), 2012-2013
- Dewalde Roode Security Workshop, 2013 – 2016, 2020
- European Conference on Information Systems (ECIS), 2012, 2015, 2019
- Journal of the American Society for Information Science and Technology (JASIST), 2011, 2016-2017
- Hawaii International Conference on System Sciences (HICSS), 2010-2015, 2018-2022
- Electronic Commerce Research and Applications (ECRA), April 2010
- Americas Conference on Information Systems (AMCIS), 2009-2010, 2012, 2014-2015, 2018-2021
- International Conference on Information Systems (ICIS), 2009-2010, 2014-2018, 2020-2021
- Information Resources Management Journal (IRMJ), 2016
- Journal of Emerging Technologies in Accounting (JETA), 2016
- Annual Symposium on Information Assurance (ASIA), 2015-2016
- Information Systems Journal (ISJ), 2022
- Journal of Management Information Systems (JMIS), 2022
- Information Systems Research (ISR), 2017

News and popular article contributions

Utah Gov. Spencer Cox issues TikTok ban on state-owned devices

<https://www.abc4.com/news/local-news/utah-gov-spencer-cox-issued-tiktok-ban-on-state-owned-devices/>

Utah Gov. Spencer Cox issues ban on TikTok, KUTV 2 News

<https://www.youtube.com/watch?v=FYyTEnXF2UA>

Salt Lake IT worker arrested, charged with sharing info on undercover officers.

<https://kutv.com/news/local/salt-lake-it-worker-arrested-charged-with-sharing-info-on-undercover-officers>

2021's States Most Vulnerable to Identity Theft & Fraud. <https://wallethub.com/edu/states-where-identity-theft-and-fraud-are-worst/17549>

Not a matter of if, but when: BYU cybersecurity expert on how to protect yourself, your data. <https://news.byu.edu/not-a-matter-of-if-but-when-byu-cybersecurity-expert-on-how-to-protect-yourself-your-data>

Also posted to these locations:

<https://www.heraldextra.com/uncategorized/2021/aug/14/byu-column-byu-cybersecurity-expert-gives-tips-on-how-to-protect-yourself-your-data/>

<https://infinitocybersecurity.com/cybersecurity-news/byu-column-byu-cybersecurity-expert-gives-tips-on-how-to-protect-yourself-your-data-2/>

<https://latterdaysaintmag.com/byu-cybersecurity-expert-on-how-to-protect-yourself-your-data/>

<https://www.dailyadvent.com/news/000aca833f684ee2c95006983e21411a-BYU-column-BYU-cybersecurity-expert-gives-tips-on-how-to-protect-yourself-your-data>

<https://darkweb.today/2021/08/14/byu-column-byu-cybersecurity-expert-gives-tips-on-how-to-protect-yourself-your-data/amp/>

<https://www.newsbreak.com/news/2323069043667/highlights-from-byu-colleges-professors-teach-cybersecurity-utah-s-immigrants-get-their-stories-told>

Professional and Academic Consulting Clients:

Wal-Mart (Bentonville, AR)

- 2010: Research and strategic development for agile software development within Wal-Mart's software development life cycle (SDLC).

Other Skills and Achievements

Security+ (*obtained in 2021*)

Microsoft Office Specialist: Excel 2003 (*obtained in 2007*)

Microsoft Office Specialist: PowerPoint 2003 (*obtained in 2007*)

Proficiency in:

- | | | |
|---------------------|---------------------|--------------|
| · Actionscript | · Java | · Powershell |
| · Applescript | · JavaScript/jQuery | · Python |
| · ASP.NET (VB) | · MySQL | · Ruby |
| · C/C++ | · OpenGL | |
| · Cocoa/Objective-C | · PHP | |