

# Jason Deane

## PROFESSIONAL:

BIT Department  
Virginia Tech  
2066 Pamplin Hall  
Blacksburg, VA 24060  
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## HOME:

1669 St. Andrews Circle  
Blacksburg, VA 24060  
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## PERSONAL DATA

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Married to Emily Deane  
Date of birth – July 10<sup>th</sup>, 1972  
Children: Conner, Sydney and Charlsie (stepdaughter)

## EDUCATION

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2002 -2006	<b>University of Florida</b>	Gainesville, FL Ph.D., Information Systems and Operations Management Warrington College of Business
1997 - 2000	<b>Virginia Tech</b>	Blacksburg, VA Master of Business Administration Pamplin College of Business
1990 - 1995	<b>Virginia Tech</b>	Blacksburg, VA Bachelor of Science in Business Administration Pamplin College of Business

## APPOINTMENTS

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2012– <i>present</i>	<b>Virginia Tech</b>	Blacksburg, VA <i>Associate Professor</i> , Department of Business Information Technology
2006 – 2012	<b>Virginia Tech</b>	Blacksburg, VA <i>Assistant Professor</i> , Department of Business Information Technology
2002 - 2006	<b>University of Florida</b>	Gainesville, FL <i>Graduate Instructor</i>
2000 - 2002	<b>EMC</b>	Apex, NC <i>IT / Procurement Specialist</i>

1995 – 2000

**Drysdale Eye Center**  
*Business Manager*

Blacksburg, VA

## **COURSES TAUGHT**

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At Virginia Tech:

BIT 4484, Project Management  
BIT 3424, Computer Modeling and Decision Analysis  
BIT 4514, Database Technology for E-Business  
BIT 4524, Systems Analysis and Design  
BIT 3414, Operations and Supply Chain Management  
BIT 2406, Quantitative Methods II  
BIT 5664, Global Supply Chain Management  
BIT 6414, Ph.D. Seminar

At the University of Florida:

ISM 4113, Systems Analysis and Design

## **JOURNAL PUBLICATIONS**

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Baker, Wade H., Deane, Jason K. and Rees, Loren P., *Cybersecurity in Supply Chains: Quantifying Risk*, Journal of Computer Information Systems, Vol 63 (3), pp. 507-521, 2023.

Rakes, T., Deane, J., Rakes, R., Rees, L. and Goldberg, D., *Disaster Risk Planning with Fuzzy Goal Programming*, Risk Analysis, Vol 42 (9), pp. 2026-2040, 2021.

Goldberg, D., Deane, J., Rakes, T. and Rees, L., *3D Printing Technology and the Market Value of the Firm*, Information Systems Frontiers, Vol 24, pp. 1379-1392, 2021.

James, T.L., Wallace, L., and Deane, J., *Using Organismic Integration Theory to Explore the Associations between Users' Exercise Motivations and Fitness Technology Feature Use*, Management Information Systems Quarterly, Vol. 43 (1), pp. 287-312, 2019.

Goldberg, D., Deane, J., Rakes, R. and Rees, L., *Marketing Investments in Sport Venue Naming Rights and the Market Value of the Firm*, International Journal of Sport Management and Marketing, Vol 19 (3), 2019.

Deane, J., Goldberg, D., Rakes, T. and Rees, L., *The effect of information security certification announcements on the market value of the firm*, Information Technology and Management, Vol. 20 (3), pp. 107-121, 2019.

James, T.L., Deane, J., and Wallace, L., *An Application of Goal Content Theory to Examine How Desired Exercise Outcomes Impact Fitness Technology Feature Set Selection*, Information Systems Journal, Vol 29 (5), 2019.

Goldberg, D., Deane, J. and Ragsdale, C., *Integrating Spatial Analytics in Global Sourcing Decisions*, International Journal of Information Technology & Decision Making, Vol. 17 (3), pp.709-739, 2018.

Rakes, T.R., Deane, J., Rees, L., Goldberg, D. and Chacko, J., *A Fuzzy Decision Model for Pre-Disaster Budgeting*, International Journal of Information Systems and Management, Vol. 1 (4), pp. 312-327, 2018.

Rees, L.P., Rakes, T.R. and Deane, J.K., *Using Analytics to Challenge Conventional Baseball Wisdom*, Journal of Service Science, Vol. 8 (1), pp. 11-20, 2015.

Rakes, T., Deane, J., Rees, L.P., and G. Fetter, *A Decision Support System for Post-disaster Interim Housing*, Decision Support Systems, Vol. 66, pp. 160-169, 2014.

Agarwal, A., S. Colak, J. Deane and T. Rakes, *The Task Scheduling Problem: A Neurogenetic Approach*, Journal of Business and Economics Research, Vol. 12 (4), pp. 327-334, 2014.

Deane, J. T. Rakes, Rees, L. and W. Baker, *The Impact of Strategic IT Partnerships on IT Security*, MIS Review, vol. 18(2), pp.81-96, 2013.

Deane, J. and A. Agarwal, *Neural and Neurogenetic Approaches for Solving the 0-1 Multidimensional Knapsack Problem*, International Journal of Management and Information Systems, vol. 17(1), pp. 43-54, 2013.

Deane, J. and A. Agarwal, *Scheduling Online Advertisements to Maximize Revenue under Non-Linear Pricing*, The Journal of Computer Information Systems, vol. 53(2), pp.85-92, 2012.

Deane, J., T. Rakes and A. Agarwal, *Designing Content Distribution Networks for Optimal Cost and Performance*, Information Technology and Management, vol. 13(1), pp. 1-15, 2012.

Deane, J., *Hybrid Genetic Algorithm and Augmented Neural Network Application for Solving the Online Advertisement Scheduling Problem with Contextual Targeting*, Expert Systems with Applications, vol. 39, pp. 5158-5177, 2012.

Deane, J. and A. Agarwal, *Scheduling Online Advertisements to Maximize Revenue Under Variable Frequency*, OMEGA, vol. 40, pp. 562-570, 2012.

Rakes, T., J. Deane and L. Rees, *IT Security Planning Under Uncertainty for High-impact Events*, OMEGA, vol. 40(1), pp. 79-88, 2012.

Deane, J., T. Rakes and L. Rees, *Behavioral Online Advertisement Targeting Using Web Surf History Analysis and Contextual Segmentation*, International Journal of Electronic Business, vol. 9(3), pp. 271-291, 2011.

Deane, J., T. Mueur and J. Teets, *A Longitudinal Analysis of Web Surf History to Maximise the Effectiveness of Behavioural Targeting Techniques*, International Journal of Electronic Marketing and Retailing, vol. 4(2/3), pp. 117-128, 2011.

Rees, L., J. Deane, T. Rakes and W. Baker, *Decision Support for Cybersecurity Risk Planning*, Decision Support Systems, vol. 51(3), pp. 493-505, 2011.

Deane, J., C. Rees and W. Baker, *Assessing the Information Technology Security Risk in Medical Supply Chains*, International Journal of Electronic Marketing and Retailing, vol. 3(2), pp. 145-155, 2010.

Agarwal, A., S. Colak and J. Deane, *A NeuroGenetic Approach for Combinatorial Optimization: An Exploratory Analysis*, Annals of Operational Research, vol. 174(1), pp. 185-199, 2010.

Abrahams, A., T. Chaudhary and J. Deane, *A Multi-Industry, Longitudinal Analysis of Email Marketing Habits of the Largest United States Franchise Chains*, Journal of Direct, Data, Digital Marketing Practice, vol. 11 (3), pp.187-197, 2010.

Deane, J., C. Ragsdale, T. Rakes and L. Rees, *Managing Supply Chain Risk and Disruption from IT Security Incidents*, Operations Management Research, vol. 2(1), pp. 4-12, 2009.

Deane, J., C. Craighead and C. Ragsdale, *Mitigating Environmental and Density Risk in Global Sourcing via a Multi-Objective Supplier Selection Model*, International Journal of Physical Distribution and Logistics Management, vol. 39(10), pp. 861-883, 2009.

Deane, J., T. Rakes and L. Rees, *Efficient Heuristics for Wireless Network Tower Placement*, Information Technology and Management, vol. 10 (1), pp. 55-65, 2009.

Deane, J. and P. Pathak, *Ontological Analysis of Web Surf History to Maximize the Click-Through Probability of Web Advertisements*, Decision Support Systems, vol. 47, pp.364-373, 2009.

## **ARTICLES UNDER SUBMISSION TO REFEREED JOURNALS**

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Baker, Wade H., Rees, Loren P. and Deane, Jason K., *A Board Recipe for Minimizing*

*Supply-Chain Cyber Loss*, under first review, Rutgers Management Review.

## **WORK IN PROGRESS**

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Deane, J., *Agile Project Management Implementation: A Systematic Review and Meta-Analysis*, Target Journal: Project Management Journal.

Deane, J., *Examining How Gamification Affordances Moderate the Stress-Coping Relationships for Online Gaming Addicts: An Application of the Stress – Coping Theory of Addictive Behavior*, Target Journal: Management Information Systems Quarterly.

Deane, J., *Team Agreement Effectiveness: The Impact of Psychological Contracts*, Target Journal: Journal of Management Information Systems.

## **REFEREED CONFERENCE PROCEEDINGS**

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Rakes, T.R., Chacko, J., Deane, J.K., and Rees, L.P., *Modeling Disaster Uncertainty with Fuzzy Goal Programming*, Proceedings of the 2015 Meeting of the Southeast Decision Sciences Institute, (Savannah, GA: 2015).

Rakes, T., G. Fetter, J. Deane and L. Rees, *An Assignment Model for the Interim Housing of Disaster Victims*, Proceedings of the 2010 SEDSI Conference, Wilmington (2010), pp. 612-618.

Deane, J., T. Rakes, and L. Rees, *Improving the Efficiency of Online Advertisement Targeting Via Artificial Intelligence Analysis of User's Web Surf History*, Proceedings of the 2009 Meeting of the Southeast Decision Sciences Institute (2009), pp. 277-284.

Deane, J. and C. Rees, *Reducing the Information Technology Risk in Medical Supply Chains*, Proceedings of the Annual Meeting of the Southeast Chapter of the Institute for Operations Research and Management Science, Myrtle Beach, SC(2008), pp. 502-507.

Deane, J., T. Rakes, L. Rees, and W. Baker, *Allocating Funds To Mitigate Information Technology Threats To Organizations Connected In A Supply Chain*, Proceedings of the 2008 SEDSI Conference, Orlando (2008), pp. 1004-1012.

Agarwal, A., S. Colak, and J. Deane, *Hybridizing Neural and Genetic Metaheuristics*, Proceedings of the First International Conference on Information Systems Technology and Management, New Dehli, India (2007), pp. 332-338.

Rakes, T., L. Rees, and J. Deane, *Fuzzy Representations of Information-Technology Security Threat-Countermeasure Effectiveness*, Proceedings of the Annual Meeting of the Southeast Chapter of the Institute for Operations Research and Management Science, Myrtle Beach (2006), pp.428 – 437.

Rakes, T., L. Rees and J. Deane, *Fuzzy Representations of Information-Technology Security Threat-Countermeasure Effectiveness*, Proceedings of the Annual Meeting of the Southeast Chapter of the Institute for Operations Research and Management Science, Myrtle Beach (2006), pp.428 – 437

## **CONFERENCE PRESENTATIONS**

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Deane, J. and T. James, *Stress, Coping, and Gaming Addiction*, Decision Sciences Institute Annual Meeting, New Orleans (2019).

Goldberg, D., and J. Deane, *Global Sourcing Risk Management via Spatial Analytics*, POMS Annual Meeting, Orlando (2016)

Agarwal, A., J. Deane, *Optimization Models for Scheduling Banner Ads for Multiple Web Sites*, POMS Annual Meeting, Denver (2013).

Deane, J., T. Rakes and L. Rees, *Online Predator Identification Using Text Mining*, Decision Sciences Annual Meeting, Baltimore (2013).

Rees, L., J. Deane and T. Rakes, *Increasing Run Production using Simulation to Model Baseball Lineups*, DSI Annual Meeting, San Francisco (2012).

Deane, J., B. Holt, T. Rakes and L. Rees, *An Information-Retrieval Based Model to Detect Areas of Political Instability*, Decision Sciences Institute Annual Meeting, Boston (2011).

Rees, L., J. Deane and T. Rakes, *Cybersecurity Risk Planning: Models, Issues and Obstacles*, Decision Sciences Institute Annual Meeting, San Diego (2010).

Deane, J., C. Craighead and C. Ragsdale, *Mitigating Risk in Global Sourcing: Towards a Decision Support Tool for Supplier Selection*, Decision Sciences Institute Annual Meeting, Baltimore (2008).

Rees, L., J. Deane and T. Rakes, *Fuzzy Modeling IT Security Concerns in a Supply Chain*, Decision Sciences Institute Annual Meeting, Baltimore (2008).

Wynne, A., T. Rakes, L. Rees, J. Deane and T. Gaithright, *Workshop on Geographical Information Systems*, SEDSI Annual Meeting, Orlando (2008).

Deane, J., T. Rakes and L. Rees, *Fuzzy VaR as a Measure of IT Security Risk*, Decision Sciences Institute Annual Meeting, Phoenix (2007).

Deane, J., T. Rakes, L. Rees and K. Scheibe, *Heuristic and Metaheuristic Solutions to the Wireless Network Tower Placement Problem*, Informs Annual Meeting, Seattle (2007).

Deane, J., Rakes, T., and Agarwal, A., *Modeling the Object Level Web Content Distribution Problem*, Decision Sciences Institute Annual Meeting, San Antonio (2006).

Rakes, T., Rees, L., and Deane, J., *Modeling the Effectiveness of a Portfolio of Fuzzy Security Countermeasures*, Decision Sciences Institute Annual Meeting, San Antonio (2006).

Deane, J., and A. Agarwal, *Scheduling On-Line Advertisements Using Neural Network/Genetic Algorithm Based Metaheuristics*, Informs Annual Meeting, Pittsburgh (2006).

Deane, J. and S. Piramuthu, *Inventory Control and Learning in Dynamic Supply Chain Networks*, Informs Annual Meeting, San Francisco, CA (2005).

Deane, J. and A. Agarwal, *Web Advertising Scheduling to Maximize Revenue under a Hybrid Pricing Model with Size Limitations*, Informs Annual Meeting, San Francisco, CA (2005).

Deane, J. and A. Agarwal, *Augmented Neural Network for Multidimensional Knapsack Problems*, Informs Annual Meeting, Denver, CO (2004).

## **SERVICE**

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### University:

Pamplin AOL Committee Member/Chair, 2019-2023  
Volunteer Panelist for the Virginia Tech Graduate Honor System, 2009-2023  
Pamplin Technology Committee, 2017  
Pamplin BIT Departmental Personnel Committee Member 2013-2016  
Chair - Pamplin College of Business Research Committee, 2012-2014  
Faculty Participant in the Pamplin LEAP Program, Summer 2011  
Faculty Mentor – Virginia Tech Alliance for Minority Participation, 2010-2011  
Pamplin College of Business Research Committee Member, 2010-2012  
Volunteer Judge – 3rd Annual Pamplin College of Business Diversity Case Competition, March 23<sup>rd</sup> & 24<sup>th</sup>, 2011  
Volunteer Virginia Tech Staff Appreciation Day, 2010-2011  
Volunteer Hokie Helpers, 2010-2011  
Faculty Advisor for the APICS Club, 2010-2011  
Faculty Representative Speaker for the Pamplin Business School Open House, 2007-2008  
University of Florida Graduate Student Council Committee Member, 2004-2005  
University of Florida GAU Healthcare Committee Member, 2004-2005

### Editorial:

Editorial Review Board Member, Journal of Computer Information Systems  
Reviewer, European Journal of Information Systems  
Reviewer, Decision Support Systems

Reviewer, Decision Sciences  
Reviewer, European Journal of Operational Research  
Reviewer, International Journal of Electronic Marketing and Retailing  
Reviewer, Information Technology and Management  
Reviewer, Decision Sciences Journal of Innovative Education  
Reviewer Proceedings DSI  
Reviewer, Proceeding ICIS  
Reviewer, Proceedings of AMCIS  
Reviewer, Proceedings of Informs  
Reviewer, Proceedings of SEDSI  
Reviewer, Proceedings of ISCRAM  
Reviewer, Proceedings International Conference on IS, Technology and Mgt.

Professional:

External Tenure Review – Penn State New Kensington – 2023  
Vice President of Information Systems – DSI 2022 - 2024  
Vice President of Marketing – DSI 2021-2023  
Member Services Committee Member – DSI 2020 - 2022  
Marketing Committee Member – DSI 2018 - 2020  
Council Member - SEDSI 2018 - 2024  
Past President – SEDSI 2017-2018  
President – SEDSI 2016-2017  
President Elect – SEDSI 2015-2016  
Program Chair – SEDSI 2014-2015  
Program Chair Elect – SEDSI 2013-2014  
VP of Finance for SEDSI, 2012 - 2014  
Associate Program Chair for the 2012 SEDSI Meeting, Columbia, SC  
Committee Member for an Ad Hoc Committee on the Role of DSI in the  
Evolution of Decision Sciences, 2011 DSI  
Student Paper Judge 2010 SEDSI  
Session Chair 2009 SEDSI

General:

Volunteer – Expert Advisor for AI Project – Student in Commonwealth  
Governor’s School  
Volunteer – Montgomery County Animal Care and Adoption Center  
Volunteer Little League Football Coach  
Volunteer Little League Baseball Coach  
Volunteer Kindergarten Soccer Coach – NRUSA  
Volunteer - assisted NRV Free Clinic overcome several database problems  
Volunteer - Academic Fair Judge, Macy McClaugherty Middle School  
Volunteer – Judge for VA DECA District Leadership Conference

**MEMBERSHIP ON GRADUATE STUDENT COMMITTEES**

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Anmol Viswakarma (VT) (Major: Civil Engineering – Ph.D.), Program of study approved, September 2020.

Anmol Viswakarma (VT) (Major: Environmental Engineering – Master’s Thesis) “Development of a Performance Analysis Framework for Water Pipeline Infrastructure Using Systems Understanding”, degree awarded Dec 2018.

David Goldberg (VT) (Major – Decision Sciences – Ph.D.), degree awarded May 2019.

Stephen Welling (VT) - (Major: Civil Engineering – Ph.D.), degree awarded May 2018.

Zeb Bowden (VT) (Major – Decision Sciences – Ph.D.), degree awarded May 2016.

Varun Raj Sekar (VT) (Major: Civil Engineering – Master’s Thesis) “Web-GIS based Global Risk Model for Water and Wastewater pipelines”, degree awarded May, 2012.

Rahul Vemulapally (VT) (Major: Civil Engineering – Master’s Thesis) ”Development of Standard Geodatabase Model and its Applications for Municipal Water and Sewer Infrastructure”, degree awarded May, 2011.

## **GRANTS, AWARDS AND HONORS**

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Pamplin Certificate of Teaching Excellence, 2017

BIT Departmental Teaching Award, 2016

“Toward a Theory, A Model, and High-Level Managerial Implications of Cybersecurity Risk in Supply Chains” with Loren Rees and Terry Rakes. Submitted to the BIT Department March 2016, Funded for \$15000.

“Towards Increasing the Effectiveness of Fitness Technologies through an Understanding of the Mechanisms Driving Their Use” with Tabitha James, submitted to the BIT Department March 2015, Funded for \$10,000

Faculty Mentor – Virginia Tech Alliance for Minority Participation, 2010-2011.

“Studies in Feature Expansion via Artificial Intelligence Analysis of User’s Web Surf History,” Summer Research Grant, Pamplin College of Business, Virginia Polytechnic Institute and State University, \$15,000, 2009.

Best Paper Award – SE Informs Conference (2008) – Information Technology, Expert Systems, AI and DSS Track - *Reducing the Information Technology Risk in Medical Supply Chains*

Virginia Tech - William P. Copenhaver Fellowship, 2000.

Virginia Tech - Paul W. Hamelman Award, 1995.

Golden Key, Beta Gamma Sigma, Phi Kappa Phi, 1995.