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**Sean LaMarc Humpherys, Ph.D.**  
**Associate Professor**  
**Computer Information and Decision Management**  
**College of Business**  
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## **Academic Background**

Ph.D. University of Arizona, Tucson, Arizona, Management Information Systems, 2010.

M.I.S. Brigham Young University, Provo, Utah, Information Systems Management, 2005.

B.S. Brigham Young University, Provo, Utah, Information Systems Management, 2005.

## **Certifications**

Certificate in College Teaching: University of Arizona Office of Instruction and Assessment, 2010, Tucson, Arizona.

Microsoft Certified Trainer, 1996

Microsoft Certified Professional, 1993

Certified Novell Engineer, 1992

Certified Novell Administrator, 1991

## **Work Experience**

### **Academic Experience**

Associate Professor of Computer Information Systems & Pickens Professor of Business, West Texas A&M University (2017 - Present), Canyon, Texas.

Computer Information Systems Program Director, College of Business, West Texas A&M (August, 2013 - Present), Canyon, Texas.

Assistant Professor of Computer Information Systems & Pickens Professor of Business, West Texas A&M University (2011 - 2017), Canyon, Texas.

Instructor, University of Arizona (2007 - 2011), Arizona, Arizona. Taught course in Systems Analysis & Design, Operations Management, and for the Graduate Assistants in Teaching Orientation (GATO).

Postdoctoral Research, National Center For Border Security and Immigration (2007 - 2011), Tucson, Arizona. The National Center for Border Security and Immigration (BORDERS) is sponsored by the Department of Homeland Security to research border security issues and propose technical and policy recommendations. Sean assisted in the creation of and request for initial funding of the center and the design of multi-year work plans. The center was awarded \$12 million for six years of research of Homeland Security (grant of \$1Mil). Sean supervised a team of researchers to conduct research to evaluate and improve operation effectiveness of Border Security Checkpoints, which includes developing and incorporating new technologies into the operations. In addition, the tools Sean developed for CMI on deception detection are being investigated and developed for rapid screening environments. Projects include rapid screening of vehicle and pedestrian traffic

across the U.S. border while maintaining operational efficiency and maximizing security; effectiveness of temporary border check points and their role in the larger theater of Homeland security, countering ultralight aircraft drug trafficking, and strategic deployment of border security assets (personnel and technology) to minimize human deaths in the border desert areas.

Research Associate, Center for the Management of Information Systems (2006 - 2011), Tucson, Arizona. With threats to national security, detecting deception and hostile intent has been a recurring topic in IS and other disciplines. Deception detection accuracy has typically averaged around chance probability(50/50). Even trained professionals do not perform much better. The most promising avenues for distinguishing deception from truth are in tools and techniques that make use of reliable behavioral cues. Deception indicators are subtle, dynamic, and transitory. Sean's goal is to develop theories of deceptive behavior and to create computer-assisted detection tools to augment human detection capabilities by discerning features of language and of nonverbal behavior. The tool must accurately discern both truthful and deceptive information to be helpful.

Research Assistant, Center for Identification Technology Research (2007 - 2010), Tucson, Arizona. This NSF research center is tasked with developing technologies useful in identifying persons and their intended behavior, e.g. intent to deceive or commit terrorist activities. CITeR has funded two research linguistic models of deception detection with associated tools.

Research Assistant, Asymmetric Threat Response and Analysis Project (2009), Tucson, Arizona. The ATRAP center is sponsored by the U.S. Army research to design and develop intelligent software that can analyze and evaluate enemy course of actions to Army intelligence officers and commanders. My capacity, along with Dr. Judee K. Burgoon, was to design organizational models to predict behavior and to customize the models to culturally-different groups. The center was awarded \$2 million for its current, second phase of research.

## **Non-Academic Experience**

### **National**

Board of Directors member, Gentle Home Health Care, Gentle Home Hospice, and OCS (January, 2008 - May, 2010), Salt Lake City, Utah.

Business Owner & IS Consultant, More Web Sales, LLC (1995 - 2006), Provo, Utah. Responsibilities included consulting in the areas of internet marketing, SEO, operation efficiencies, and information systems.

Technical Instructor in Adult Education, ExecuTrain (1993 - 1995), Alpharetta, Georgia. Responsibilities included teaching technical training classes to clients, whom included IRS & FBI investigation agents, Coral Gabel police officers, U.S. military personnel, DOD defense contractors. Classes included advanced level MS Access & MS SQL development, MS Office Professional, Visual Basic programming, Netware administration, and NT setup and administration.

Senior Network Technical Representative, Word Perfect of Novell (1991 - 1993), Provo, Utah. Responsible for handling and solving 40-60 technical network support problems per day in Word Perfect's support center. Worked with all major networks. Responsibilities also included new product testing on networks, test results write up, training aid development, and feature recommendations to senior program engineers.

## **Intellectual Contributions:**

### **Refereed Articles**

Humpherys, S. L., & Meredith, N. R. (2017). Assessing Advertising Bids in Generalized-Secondary Auctions for Improved Selection of Search Engine Keywords. *Southwestern Economic Review*, 44 (1), 43-65.

Burgoon, J. K., Bonito, J. A., Lowry, P. B., Humpherys, S. L., Moody, G. D., James E. Gaskin, and Justin Scott Giboney (2016). Application of Expectancy Violations Theory to Communication with and Judgments of Embodied Agents during a Decision-Making Task. *International Journal of Human-Computer Studies*, 91, 24-36, doi: 10.1016/j.ijhcs.2016.02.002.

Humpherys, S. L., Babb, J. S., & Abdullat, A. (2015). Where do Student Outcomes Begin? Developing Professional and Personal Management Skills as a Strategy for Student Success in the First Computing Course and Beyond. *Information Systems Education Journal*, 13 (6), 4-26.

Lowry, P. B., Gellesta, D., Moody, G., Wilson, D., Humpherys, S. L., Jordan Barlow (2013). Evaluating Journal Quality and the Association for Information Systems (AIS) Senior Scholars' Journal Basket via Bibliometric Measures: Do Expert Journal Assessments Add Value? *MIS Quarterly*, 37 (4), 993-1012.

Humpherys, S. L., Moffitt, K. C., Burns, M. B., Burgoon, J. K., & Felix, W. F. (2011). Identification of Fraudulent Financial Statements Using Linguistic Credibility Analysis. *Decision Support Systems*, 50 (3), 585-594.

Dean, D., Lowry, P. B., & Humpherys, S. L. (2011). Profiling the Research Productivity of Tenured Information Systems Faculty at U.S. Institutions. *MIS Quarterly*, 35 (1), 1-15.

Lowry, P. B., Humpherys, S. L., Broadbent, K., Malwitz, J., & Nix, J. (2007). A Scientometric Study of Business and Technical Communication Journal Quality Ratings. *IEEE Transactions On Professional Communications*, 50 (4), 352-378.

Lowry, P. B., Wells, T., Moody, G., Humpherys, S. L., & Kettles, D. (2006). Online Payment Gateways Used to Facilitate e-commerce Transactions and Improve Risk Management. *Communications of the Association for Information Systems*, 17 (6), 123-152.

## **Book Chapters**

### **Refereed**

Lowry, P. B., Humpherys, S. L., Keith, M., & Spaulding, T. (2012). The future of writing together: Emerging research in collaborative writing technologies. In Robert Briggs, Jay Nunamaker and Nicholas Romano (Eds.), *Advances in Management Information Systems (Volume on Collaboration Science, Technologies, Process and Applications)*. M.E. Sharpe Inc..

Burgoon, J. K., Humpherys, S. L., & Moffitt, K. (2008). Nonverbal communication: Research areas and approaches (Volume 1: Rhetoric and Stylistics). In Ulla Fix, Andreas Gardt & Joachim Knape (Eds.), *An International Handbook of Historical and Systematic Research* (pp. 787-812). New York: Walter de Gruyter.

## **Refereed Proceedings**

### **Full Paper**

Humpherys, S. L., Babb, J., & Abdullat, A. (2014). Where do student outcomes begin? Developing Personal and Life Skills as a Strategy for Student Success in the First Computing Course and Beyond. *ISECON*.

Humpherys, S. L., Carl, K., Burgoon, J., & Nunamaker, J. (2010). Disfluency rate as a paralinguistic cue to deception among native and nonnative English speakers. *Hawaiian International Conference on Systems Science*.

Humpherys, S. L., Moffitt, K., Elkins, A., Burgoon, J., & Nunamker, J. (2010). Rapid noncontact credibility assessment via linguistic/vocalic analyses. *National Communication Association*.

Humpherys, S. L. (2009). Discriminating fraudulent financial statements by identifying linguistic hedging.

Americas Conference on Information Systems.

Burgoon, J. K., Derrick, D., Jensen, M., Humpherys, S. L., Diller, C., Jay Nunamaker (2008). Potential noncontact tools for rapid credibility assessment from physiological and behavioral cues. IEEE International Carnahan Conference on Security Technology.

Jensen, M., & Humpherys, S. L. (2008). Behavior of experts using decision aid for deception detection. Hawaiian International Conference on Systems Science.

Hamel, L., Burgoon, J. K., Humpherys, S. L., & Moffitt, K. (2007). The 'When' of detecting interaction deception. National Communication Association.

## **Presentation of Refereed Papers**

### **International**

Humpherys, S. L., Carl, K., Burgoon, J., & Nunamaker, J. (2010). Disfluency rate as a paralinguistic cue to deception among native and nonnative English speakers. Hawaiian International Conference on Systems Science, Kauai, Hawaii.

Burgoon, J. K., Jensen, M., Derrick, D., Humpherys, S. L., Diller, C., & Nunamaker, J. (2008). Potential noncontact tools for rapid credibility assessment from physiological and behavioral cues. IEEE International Carnahan Conference on Security Technology, Prague, Czech Republic.

Jensen, M. & Humpherys, S. L. (2008). Behavior of experts using decision aid for deception detection. Hawaiian International Conference on Systems Science, Kauai, Hawaii.

### **National**

Humpherys, S. L., Moffitt, K., Elkins, A., Burgoon, J., & Nunamaker, J. (2010). Rapid noncontact credibility assessment via linguistic/vocalic analyses. National Communication Association, San Francisco, California.

Burns, M., Burgoon, J. K., Moffitt, K., Humpherys, S. L., Nunamaker, J. F., & Harpster, T. (2009). Application of automated linguistic analysis to deception detection in 911 homicide calls. Center for Identification Technology Research, Tucson, Arizona.

Humpherys, S. L., Moffitt, K., Burgoon, J., & Nunamaker, J. (2009). Deception detection using collocation and hedging. Center for Identification Technology Research, Tucson, Arizona.

Humpherys, S. L. (2009). Discriminating fraudulent financial statements by identifying linguistic hedging. Americas Conference on Information Systems, San Francisco, California.

Moffitt, K., Humpherys, S. L., Burgoon, J. K., & Derrick, D. (2009). Linguistic Cue Extractor: Integrating GATE, LIWC, and providing a platform for future tool building. Center for Identification Technology Research, Tucson, Arizona.

Moffitt, K., Humpherys, S. L., Burns, M., & Burgoon, J. K. (2009). Evaluating and integrating speech recognition software into agent99 for real-time deception detection. Center for Identification Technology Research, Tucson, Arizona.

Humpherys, S. L. (2008). Detecting auto fraud and financial fraud using linguistic cues to deception. Center for Identification Technology Research, Morgantown, West Virginia.

Burgoon, J. K., Hamel, L., Burgoon, J., Moffitt, K., & Humpherys, S. L. (2007). The 'When' of detecting interaction deception. National Communication Association, Chicago, Illinois.

### **Regional**

Humpherys, S. L. (2008). Detecting fraud in financial disclosures using hedging. Center for Identification Technology Research, Tucson, Arizona.

## **Presentation of Non-Refereed Papers**

### **Local**

Humpherys, S. L. (2012). Profiling research productivity of tenure faculty at U.S. institutions. Invited presentation at College of Business research symposium, Canyon, Texas.

### **National**

Humpherys, S. L. (2013). Discriminating fraudulent financial statements by identifying linguistic hedging. Invited presentation at Capital Group Companies, Los Angeles, California.

## **Research Grants**

### **Funded**

2017: Bakir, N. WTAMU Foundation Grant, Co-Investigator.

## **Service:**

## **Service to the University**

### **Department Assignments**

#### **Chair:**

2015-2016 – 2017-2018: ABET Course coordinator for CIDM1315 and CIDM3330

2014-2015 – 2015-2016: Computer Information Systems Program Director

### **Department Assignments**

#### **Member:**

2011-2012 – 2012-2013: AACSB accreditation implementation and review committee (AACSB attained in 2012)

### **Department Assignments**

#### **Member:**

2014-2015 – 2017-2018: ABET accreditation annual evaluation and improvement

### **Department Assignments**

#### **Member:**

2011-2012 – 2013-2014: ABET accreditation implementation and review committee (ABET attained in 2013)

### **Department Assignments**

#### **Member:**

2017-2018: P&T Committee

2012-2013 – 2017-2018: CIDM Faculty Search Committee

**Student placements:**

2013: College of Business Etiquette Dinner

**Department Assignments**

**Student placements:**

2011-2012 – 2016-2017: Liaison with local business who are interested in hiring WT graduates

**College Assignments**

**Chair:**

2013-2014: Faculty Development and Recognition Committee

**Member:**

2018-2019: Journal Evaluation Committee

2018-2019: Ethics and Academic Integrity Committee

2017-2018 – 2018-2019: Retention, Tenure, and Promotion Committee

2017-2018: COB Faculty Standards Committee

2017-2018: Student Research Enhancement Committee

2015-2016: Graduate Business Admissions Committee

2015-2016: Faculty Development & Recognition Committee

2014-2015: Teaching Excellence Committee

2014-2015: Administrative Committee

2013-2014: Administrative Committee

2012-2013 – 2013-2014: Teaching Excellence Committee

2012-2013: Faculty Development and Recognition Committee

2011-2012: Faculty Development and Recognition Committee

**Mentoring Activities:**

2016-2017 – 2017-2018: Mentore undergraduate research

**Member:**

2017-2018: P&T Committee

2017-2018: Student Research Committee

**University Assignments**

**Member:**

2014-2015 – 2016-2017: Information Technology Committee

2014-2015: SACS GLO Committee responsible for creating a communication rubric for SACS accreditation

### **Mentoring Activities:**

2014-2015: McNair Scholar Faculty Mentor. Student won 1st place in Texas A&M Undergraduate research conference for CS category for his research on aiding speech impaired individuals with prototype mobile phone application.

## **Service to the Profession**

### **Reviewer - Article / Manuscript**

2014 – 2016: Group Decision and Negotiation journal.

2013 – 2016: International Conference on Information Systems (ICIS).

2014 – 2015: Information Systems Educator's Conference (ISECON).

2014: ISED conference.

2013 – 2014: MIS Quarterly.

2009 – 2012: Hawaii International Conference on System Sciences (HICSS).

## **Service to the Community**

### **Member of a Committee**

2015 – 2016: Roots Tech - Global Family History Event, Roots Tech is an international event open to the public to teach the technology behind family history research. Organized and hosted at WTAMU a regional chapter of the Roots Tech event. Managed technology, marketing, facilitated speakers, and guest speaker myself.

### **Other Community Service Activities**

2016: College of Business at WT career fair for regional high school students event., Approximately 4000 junior and senior high school students visited WT for a career fair to learn about various careers. The CIDM department hosted a booth to promote the College of Business and Computer Information Systems. Over 400 students signed up for more information, which far exceeded WT's expectations.

2016: ACE High School students visit WT event, Juniors and Seniors in the ACE program, specifically Tascosa and Caprock high schools, visited WT. Created an interactive presentation to discuss STEM careers, the College of Business, and Computer Information Systems as a major. Presented in front of approximately 100 students.

### **Speech / Presentation at a Community Meeting**

2017: Coding Summer Camp

2017: How to Teach Coding Workshop to train STEM teachers in local high schools

2012 – 2017: Los Barrios de Amarillo's Step Up To Success conference, Presented to Hispanic students about career opportunities in Computer Information Systems in a fun and engaging manner. Goal was to encourage college attendance and inform about CIS major at WTAMU.

2015: Hour of Code, Hour of Code is an international event with the aim of giving nonprogrammers first hand experiences with coding. Locally, freshman at WTAMU were invited to learn, as were community boy

and girl club organizations. Coding events include learning to code phone applications and program robots.

2013 – 2015: Day at the College of Business, hosted several High school and middleschool students per year (primarily students of minority decent) in partnership with College Talent Search and Upward Bound Math and Science

## **Honors-Awards-Grants**

### **Award**

2011: T. Boone Pickens Professor of Business, College of Business.

### **Honor**

2014: Teaching Excellence Award, West Texas A&M University, College of Business. Annual award for the outstanding teacher in the College selected by peers and approved by dean..

## **Courses Taught**

### **Courses taught, but not in the Schedule:**

CIDM 1315: Programming Fundamentals

CIDM 3330: Management of Information Systems

CIDM 3312: Advance Business Programming

CIDM 3320: Digital Communication and Collaboration

CIDM 6375: Planning for IT in Health Care

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