

CHRISTINE ALLEN, Ph.D., CMSP
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EDUCATION

- University of Central Florida**, Orlando, FL **2011**
- Ph.D., Modeling and Simulation, GPA 3.93/4.00
 - Advisors: Dr. Peter Kinkaid / Dr. Sae Schatz
- University of Central Florida**, Orlando, FL **2009**
- M.S., Modeling and Simulation, GPA 3.92/4.00
- University of West Florida**, Pensacola, FL **1997**
- B.S., Exercise Science, GPA 3.85/4.00
 - Magna Cum Laude

PROFESSIONAL EXPERIENCE

- Christine M. Allen Consulting** **2015 – current**
- Personal and professional development for individual and corporate customers
 - Researched technical aspects and created a strategy implementation plan and technical proposal for a partnership announcement, advised customers during client meetings, assisted customers with curriculum development for youth educational platform.
 - Served as medical simulation subject matter expert.
 - Created customized training, leadership programs, and curriculum to meet client goals. Coached individuals of all levels (entry level – executive) with professional and personal goal attainment and growth.
 - University of Central Florida (UCF) College of Medicine (COM) Assistant Professor for Medical Education **2015 – current**
 - UCF COM Focused Inquiry Research Experience (FIRE)
 - Faculty mentor for Melissa Smith, Intubation forces on maxillary incisors and vocal cords: A study of a Joint Airway Simulator **2014 – 2016**
 - Advised Melissa with topic creation, research hypothesis and experimental protocol, creation and submission of two IRBs, secured experimentation with the Orange County Fire Department, assisted with experimentation and data collection, assisted with results creation yielding to a UCF poster presentation and conference acceptance of a paper and presentation.
 - Faculty mentor for Matthew Mui, Forces Applied on Laryngoscope during Intubation: A study on Airway Simulators **2012 – 2015**
 - Advised Matthew with topic creation, research hypothesis and experimental protocol, creation and submission of three IRBs, secured experimentation with the University of Minnesota College of Medicine, assisted with experimentation and data collection, assisted with results creation yielding to UCF poster presentation and conference acceptance of a paper and presentation.
 - UCF Institute for Simulation and Training Graduate Faculty Scholar **2016 – current**
 - Ph.D. dissertation committee member for Matthew Hackett, A Review and Selective Analysis of 3D Display Technologies for Basic Anatomy Training.

Research, Development, and Engineering Command (RDECOM), Army Research Laboratory (ARL), Human Research and Engineering Directorate (HRED), Simulation & Training Technology Center (STTC), Orlando, FL

Army Civilian Science and Technology Manager

2009 – 2015

- As the Subject Matter Expert (SME) / Contracting Officer Representative (COR) and Cooperative Agreement Manager (CAM), contributed research and managed over 50 research and development contract and cooperative agreement efforts, within budget and schedule, totaling \$15M+ (45% of customer funds solicited from written proposals) which created essential Warfighter training technologies aimed to increase human performance.
- Transitioned multiple technologies from research and development to Army and Air Force Program of Records which filled gaps in Warfighter training curriculum.
- Developed multiple experimental design protocols (including individual review board documentation) to conduct training evaluations at numerous military, academic, and civilian sites yielding improved technology usability and effectiveness.
- Communicated and coordinated with all levels of DoD, industry, academia, and law enforcement executive leadership to build collaborative relationships across multiple committees: contracting, STEM, disaster preparedness, antiterrorism, and technology demonstrations.
- Executed duties beyond medical research which optimized efficiency at the organizational level and increased technology development and transition.
- Member of university-led consortium on tissue properties and evaluation, Joint Airway M&S Capability Requirement Working Group, and Interagency Mobile Learning Group leading to technology development to increase training capability.
- Invited University of Central Florida College of Medicine Faculty Appointment: mentored two college of medicine students with focused inquiry research experience studies yielding conference paper and presentation.
- Mentored and trained UCF student and government interns and employees.

University of Central Florida (UCF) / Institute for Simulation and Training (IST), Orlando, FL
Government Contractor Research Analyst

2008 – 2009

- Provided research assistance and project management for chief engineer and engineering management which enabled projects to be delivered on time and within scope for customer delivery.
- Created research protocols for testing and evaluations which were designed to capture usability and performance data tracking the outcome of R&D technology.
- Developed a budget to track departmental expenditures distributed across three accounts which reduced overhead.
- Wrote nomination for Multiple Amputee Trauma Trainer (MATT) which won the National Training and Simulation Association (NTSA) 2009 Modeling and Simulation Award.

Christine M. Allen, Inc., Orlando, FL

2003 – 2008

Owner Christine M. Allen Inc. and RadiantAromas

- Developed and delivered client-specific wellness and weight loss education along with life coaching sessions which assisted people in attaining their personal health and professional goals.
- Maintained company accounting books, managed inventory, marketing, sales, and budget.
- Scirion Personal Trainer Instructor and Proctor.
- Co-Authored Master Communicators, Inspiration to Energize Your Spirit, 2003.
- Mentored and trained interns.

Wellness Specialist and Educator (Health Central Hospital)

- Created and implemented a comprehensive wellness program for the Oakland Police Department including baseline testing and measurement, educational programs,

implementation of personalized wellness plans, and follow up measurement which increased staff retention, improved fitness, and reduced stress levels.

- Created wellness programs for executives (physicians, surgeons, lawyers, and business owners) to decrease stress and help increase productivity.
- Created and facilitated health education for private and public marketing venues, which increased sales by 50% in the health and wellness department for Health Central Hospital.

Dr. P. Phillips YMCA, Orlando, FL

2001 – 2003

Wellness Director

- Led three department managers (wellness, personal training, and group aerobics) and 80 staff members to a daily member usage increase over 40% by developing and implementing standards and accountability which resulted in increased member satisfaction.
 - Managed three department budgets of over \$600K to 10% under cost.
- Developed the organization by aligning the team with corporate core values and mission statement by setting and achieving short and long term goals.
- Created and implemented bimonthly employee training and team building sessions leading to increased productivity and employee retention.
- Created multiple monthly health and wellness events for members and community groups.
 - Instructed health seminars for youth and adults.
 - Created and instructed all levels with additional program development for teen fitness, high-risk adult, and pregnancy programs.
 - Worked with executive level fitness clients and high profile professional football and basketball players to create programming to meet personal and professional goals.
- Chaired the Youth Scholarship campaign, wellness training and development subcommittee, and wellness volunteer committee working with community leaders and company owners.
 - Casted vision, set meeting objectives, allocated resources via community fund raising and development of individual volunteers.
- Received “Rising Star and Eagle Awards” as recognition for accomplishments.

University of South Florida, Tampa, FL

1999 – 2001

Accountant/Customer Service Specialist

- Performed account analysis, identified trends, and generated reports on refunds, outstanding checks and credits leading to a balanced account budget.
 - Processed and reconciled refund requests, outstanding checks and credits across multiple campuses, departments, and individual accounts leading to a reduction in the number of outstanding checks.
- Represented department for the “Staff Annual Campaign Drive”, creating and delivering presentations raising increased scholarship funding over past years.
- Mentored and trained USF students.

Sacred Heart Hospital, Pensacola, FL

1996 – 1999

Wellness Specialist

- Education
 - Created and delivered presentations on healthy lifestyle choices and disease prevention for academic and professional health fairs.
 - Featured speaker on multiple Sacred Heart today television episodes.
- Program Development
 - Assisted in the creation and development of events including the 1998 ESPN National Ski and Wakeboard Championship, Emerald Coast PGA Classic, and Blue Angel Soccer Tournament.
 - Organized community wellness events and physician coverage for athlete injury.
 - Served as an advisor on multiple marketing and health committees to develop community programming.
- Health Performance Center (Wellness Center)

- Created custom wellness programs for high-risk individuals (post-cardiac rehab, pre-/post- surgical, diabetes, stroke, and teens with cardiovascular disease) to reduce health risk and improve quality of life.
- Worked with executive level clients to create personalized programs to meet personal and professional goals.
- Coordinated multiple community outreach programs to increase Health Performance Center membership and create wellness awareness.
- Trained intern staff.
- Outpatient Rehabilitation Center (Physical Therapy)
 - Created treatment protocols for rehab patients (pre- and post-surgical) under the supervision of the Physical Therapy Director.
 - Established post-rehabilitation programs bridging the rehab and wellness centers to continue healthy lifestyle and rehabilitation goals.

ACADEMIC EXPERIENCE

- **University of Central Florida (UCF) – Graduate Faculty Scholar, College of Graduate Studies** **2015 – current**
 - Ph.D. dissertation committee member for Matthew Hackett, A Review and Selective Analysis of 3D Display Technologies for Basic Anatomy Training
- **UCF College of Medicine (COM) – Assistant Professor of Medical Education** **2015 – current**
 - **UCF COM Focused Inquiry Research Experience (FIRE) Mentor** for Melissa Smith, Intubation forces on maxillary incisors and vocal cords: A study of a Joint Airway Simulator **2014 – 2016**
 - **UCF COM FIRE Mentor** for Matthew Mui, Forces Applied on Laryngoscope during Intubation: A study on Airway Simulators **2012 – 2015**

PROFESSIONAL LECTURES AND PRESENTATIONS

- Smith, M., **Allen, C.**, Norfleet, J., Mazzeo, M. (2016). Intubation Forces: A Study of a Joint Airway Simulator. *Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC)*, Orlando, FL.
- Lacerenza, C., Burke, S. Metcalf, D., Marlow, S., Read, L., **Allen, C.**, Mazzeo, M. (2015). Using Augmented Reality to Train Combat Medics: An Evaluation. Presented at the *Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC)*, Orlando, FL.
- **Allen, C.** and Goldiez, B. (2014). Quantitative Assessment of Combat Casualty Skills. Presented at the *Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC)*, Orlando, FL.
- Mui, M. and **Allen, C.** (2014). Forces Applied on Laryngoscope during Intubation: A study on Airway Simulators. Presented at the *Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC)*, Orlando, FL.
- **Allen, C.** and Metcalf, D. (2014). Gaming to Train First Responders: Using Mobile Devices and AR. Presented at *GameTech*, Orlando, FL.
- Metcalf, D. and **Allen, C.** (2014). Combat Medic Card Game. *mLearnCon's Demofest Winners*. Online Presentation.
- Metcalf, D. and **Allen, C.** (2014). Combat Medic Card Game. *Controls and Displays SubTAG session 68th Department of Defense Human Factors Engineering Technical Advisory Group (DoD HFE TAG)*.
- **Allen, C.** (2014). Combat Medic Card Game. *ADL Mobile Learning Webinar Series*. Online Presentation.

- **Allen, C.** (2013). Kicking and Bleeding: Empirical Testing of an Amputee Trauma Trainer. Presented at the *Interservice/Industry Training, Simulation, and Education Conference (IITSEC)*, Orlando, FL.
- Schatz, S., Marrafino, A., **Allen, C.**, and Tanaka, A. (2012). Human–Systems Integration, Simulation, and the Nursing Shortage. Presented at the *Human Factors and Ergonomics Society Healthcare Symposium*, Baltimore, MD.
- Metcalf, D., **Allen, C.**, Eakins, M., and Graffeo, C. (2012). Universal Connectivity Framework (UCF). Poster presented at the *Medical Health System Research Symposium (MHSRS)*.
- **Allen, C.** and Metcalf, D. (2012). Multimodal Training for Combat Care. Presented at the *Medical Technology Training Treatment (MT3)*, Orlando, Florida.
- **Allen, C.** and Metcalf, D. (2012). Schoolhouse Implementation of Combat Medic and Combat Lifesaver Cards. Presented at *Military Health System Research Symposium (MHSRS)*, Fort Lauderdale, Florida.
- Baez, N., Anton, E.B., and **Allen, C.** (2012). Medical Training Evaluation and Review (MeTER) System. Presented at Military Health System Research Symposium, Fort Lauderdale, Florida.
- Jones, D. and **Allen, C.** (2012). V-Xtract Evaluation of an Extrication Training System: Reaction Assessment and Success Criteria. Poster presentation at Military Health System Research Symposium, Fort Lauderdale, Florida.
- **Allen, C.** (2012). V-Xtract interview. *Army Material Command*.
- **Allen, C.** (2011). V-Xtract interview. *Telemedicine and Advanced Technology Research Center*.
- Lyons, R., **Allen, C.**, Weaver, S. J., Metcalf, D., Graffeo, C., & Salas, E. (2011). The combat medic card game for emergency medical procedures: A usability and learning study. Poster presentation at the *55th annual Meeting of the Human Factors and Ergonomics Society*, Las Vegas, Nevada.
- Anton, E.B., Anton, J., Baez, N., **Allen, C.** (2011). Medical Training Evaluation Report (MeTER) System. Poster presentation at *Advanced Technology Applications for Combat Casualty Care (ATACCC)*, Fort Lauderdale, Florida.
- **Allen, C.** & Dickinson, S. (2011). Virtual MRAP ambulance. Presented at the *Defense GameTech Users' Conference*, Orlando, FL.
- Metcalf, D., **Allen, C.**, Cendan, J., Hornik, S. (2011). Supporting Blended Learning with Mobile Devices Playing Cards and Games. Presented at the Defense GameTech Users' Conference 2010, Orlando, FL.
- **Allen, C.**, **Pike, W.**, **Lacy, L.**, **Jung, L.**, **Wiederhold, M.** (2010). Using biological & environmental malodors to enhance medical simulation training. Presented at the *Interservice/Industry Training, Simulation, and Education Conference (IITSEC)*, Orlando, FL.
- **Allen, C.**, **Norfleet, J.**, **Pettitt, M.** (2010). MSTC discrete system simulation. Presented at the *Interservice/Industry Training, Simulation, and Education Conference (IITSEC)*, Orlando, FL.
- **Created and delivered over 100 health and wellness presentations from 1996 – 2007.**

PROFESSIONAL PUBLICATIONS

- Smith, M., **Allen, C.**, Norfleet, J., Mazzeo, M. (2016). Intubation Forces: A Study of a Joint Airway Simulator. *Interservice/Industry Training, Simulation, and Education Conference (IITSEC)*, Orlando, FL.
- Lacerenza, C., Burke, S. Metcalf, D., Marlow, S., Read, L., **Allen, C.**, Mazzeo, M. (2015). Using Augmented Reality to Train Combat Medics: An Evaluation. *Interservice/Industry Training, Simulation, and Education Conference (IITSEC)*, Orlando, FL.
- **Allen, C.**, Goldiez, B., Romeu, A., Pingel, T., & Mazzeo, M. (2014). Quantitative Assessment of Combat Casualty Skills. *Interservice/Industry Training, Simulation, and Education Conference (IITSEC)*, Orlando, FL.
- Mui, M., **Allen, C.**, Konja, M., Hananel, D., & Stubbs, J. (2014). Forces Applied on Laryngoscope during Intubation: A study on Airway Simulators. *Interservice/Industry Training, Simulation, and Education Conference (IITSEC)*, Orlando, FL.

- **Allen, C.** (2013) Kicking and Bleeding: Empirical Testing of an Amputee Trauma Trainer. *Interservice/Industry Training, Simulation, and Education Conference (IITSEC)*, Orlando, FL. Schatz, S., Marrafino, A.,
- **Allen, C.** (2013). 3D Augmented Reality (AR) card game interview for *Training and Simulation Magazine*.
- **Allen, C.** (2013). 3D Augmented Reality (AR) technology interview for *Defense News*.
- **Allen, C.** (2013). Advanced upper airway interview for *Wired Magazine*.
- **Allen, C.** (2013). Medical Training Evaluation and Review (MeTER) transition story for *RDECOM*.
- **Allen, C.**, and Tanaka, A. (2012). *Human-Systems Integration, Simulation, and the Nursing Shortage. Human Factors and Ergonomics Society Healthcare Symposium*, Baltimore, MD.
- **Allen, C.** (2012). STEM-Focused Science Fair STEM Initiative Update: Team Orlando. *Science and Technology Innovations*.
- Baez, N, Anton, E.B., & **Allen, C.** Schoolhouse implementation of combat medic and combat lifesaver cards and Medical Training Evaluation and Review (MeTER) system. *Military Medicine*.
- **Allen, C.** (2012). ARL STTC Employees Judge Future Scientist and Engineer Project. *ARL Inside*.
- **Allen, C.** (2012). ARL STTC Employees Judge Future Scientist and Engineer Project. *Team Orlando February Newsletter*.
- **Allen, C.** (2011). Bleeding control using multiple amputee trauma trainer in medical simulation: Comparison of movement versus non-movement in training.
- Lyons, R., **Allen, C.**, Weaver, S. J., Metcalf, D., Graffeo, C., & Salas, E. (2011). The combat medic card game for emergency medical procedures: A usability and learning study. *55th annual Meeting of the Human Factors and Ergonomics Society, Las Vegas, Nevada*.
- **Allen, C.**, Pike, W., Lacy, L., Jung, L., & Wiederhold, M. (2010). Using biological & environmental malodors to enhance medical simulation training. *Proceedings of the Interservice/Industry Training, Simulation, and Education Conference (IITSEC)*. Orlando, FL.
- **Allen, C.**, Norfleet, J., & Pettitt, M. (2010). MSTC discrete system simulation. *Proceedings of the Interservice/Industry Training, Simulation, and Education Conference (IITSEC)*. Orlando, FL.
- Atkins, T. A., Westerlund K., **Allen, C.**, & Thompson, O. (2009). Meningitis: the quiet before the storm? (Simulation of an on-campus outbreak). *21st European Modeling & Simulation Symposium, 2*, 221 – 227.

BOOKS

Marano (married name **Allen**), Christine. (2003). Fast Break. In a B. Biro and D. Hanson (Eds.), *Master Communicators, Inspiration to Energize Your Spirit* (pp. 63-66). Asheville, NC: Pygmalion Press.

HONORS / AWARDS

- Won Best in Show Non-Vendor mLearnCon's Demofest **2014**
- Augmented Reality Card Game project won the Advanced Distributed Laboratory (ADL) Academic Co-Lab Learning Challenge App **2013**
- V-Xtract program won the Tibbetts SBIR award **2013**
- Letter of appreciation from the Seminole School system for organizing Seminole County Regional Science, Math, and Engineering Fair judges **2013**
- AMC Antiterrorism planning and execution 1st place award **2012**
- Multiple performance commendations and cash awards, STTC Colonel recognition **2012**
- United States Alliance for Technological Literacy Certificate of Appreciation **2012**
- Planning and executing IITSEC medical booth, HRED Director recognition **2012**
- Certificate of Achievement top ten MeTER poster for ATACCC **2011**
- Planning/executing of Anti-Terrorism Exercise, STTC Colonel recognition **2010 – 2014**

- Commendation for U.S. Army All American Bowl outreach, Major General recognition **2010**
- Delta Epsilon Iota Academic Honor Society **2010**
- Planning/executing I/ITSEC STTC medical booth, STTC Colonel recognition **2009 – 2012**
- NTSA M&S Award Army Team Training for MATT, Brigadier General recognition **2009**
- Received “Eagle Award” as recognition for high performance **2002**
- Received “Rising Star Award” as recognition for accomplishments **2001**
- Sacred Heart Service Superstars **1998 – 1999**
- Various recognition and letters of commendation for work performance **1997 – 2001**
- UWF Alumni Association **1997**
- The National Dean’s List **1994 – 1995**
- Dean’s List **1992 – 1997**
- The Honor Society of Phi Kappa Phi **1992 – 1997**
- B.O.B. Award **1993**
- Bright Futures Scholarship **1992 – 1996**
- Future Business Leaders of America Scholarship **1992 – 1996**
- Barry University Full Academic Scholarship **1992 – 1993**
- Italian American Academic Scholarship **1992**

PROFESSIONAL DEVELOPMENT

- Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC) **2016**
- Lifework Leadership Program Graduate **2016**
- Stock investment and options training **2015 – 2016**
- John Maxwell Team Certified Speaker, Trainer, and Coach for leadership development **2015**
- Member of Joint Airway M&S Capability Requirement Working Group **2014 – 2015**
- Member of Interagency Mobile Learning Group **2014 – 2015**
- Army Acquisition Leadership Challenge Program - I **2014**
- Certified SPRDE Science and Technology Manager Level III **2014**
- Military Operations Research Symposium (MORS) **2012, 2013**
- Certified Modeling & Simulation Professional (CMSP) **2013 – current**
- Medical Training Technology & Treatment (MT3) **2012**
- Medical Health System Research Symposium (MHSRS) **2011, 2012, 2014**
- Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC) **2010 – 2014**
- Defense GameTech Users’ Conference **2010, 2011, 2014**
- Human Factors and Ergonomics Society (HFES) **2009 – 2015**
- Collaborative Institutional Training Initiative (CITI) **2009 – current**
- Contract Officer Representative (COR) **2009 – 2015**
- Over 100 DAU and military-based training courses **2009 – 2015**
- Over 20 natural health training courses **2003 – 2008**
- Business building and natural health education over 230 hours **2006**
- Brian Biro Master Communicator Certified Trainer and Life Coach **2002**
- Customer Service: Valencia Institute, **2002**
- Effective Communication Skills: Valencia Institute **2002**
- Effective Negotiations: Valencia Institute **2002**
- Who Moved My Cheese?: Valencia Institute **2002**
- The Fish Philosophy: Valencia Institute **2002**
- Financial Development 101 Training Session **2002**
- Current Support Director Institute **2002**
- Model-Netics Management Training Program **2001**
- Effective Interviewing and Hiring Training Session **2001**
- Transitioning the Balance Disorder Patient from Rehab to Wellness **2001**
- Effective Hiring and Interviewing **2000**
- Customer Service, Dealing with Difficult People **2000**

COMPUTER SKILLS

- Simulation Tools: Presagis Creator/Terra Vista, STAGE/FlightSim, Arena, NetLogo, MATLAB,
- Word, Excel, PowerPoint, SPSS

PROFESSIONAL AFFILIATIONS

- Human Factors Ergonomics Society (HFES) international conference **2009 – 2015**
 - Training Technical Group Special Awards Chair **2014 – 2015**
 - Conference Chair for Human Performance and Student Forum **2014**
 - Conference Co-chair for Training and Augmented Cognition subgroups **2014**
 - Reviewer for technical training group, international conference **2013 – 2015**
 - Reviewer for technical training, student international conference **2013 – 2015**
 - Reviewer for technical training, student grant submissions **2013 – 2015**
- Military Operations Research Society (MORS) **2010 – 2013**
- Women in Engineering (WIE) **2009 – 2011**
- Institute of Electrical and Electronics Engineers (IEEE) **2009 – 2011**
- National Defense Industrial Association (NDIA) **2008 – current**
- Delta Epsilon Iota Lifetime Member
- University of Central Florida Alumni Association
- University of West Florida Alumni Association
- Phi Kappa Phi

MENTORING EXPERIENCE

- UCF Ph.D. Committee member for Matthew Hackett **2016 – current**
- UCF COM FIRE student Melissa Smith **2014 – 2016**
- UCF COM FIRE student Matthew Mui **2012 – 2015**
- Government interns (undergraduate and graduate) **2012 – 2015**
- Contractor interns **2010 – 2012**
- West Point Cadets **2009 – 2011**
- University of Central Florida students **2008 – 2012**
- RadiantAromas staff and interns **2006 – 2008**
- Dr. P. Phillips YMCA wellness staff **2001 – 2003**
- University of South Florida students **1999 – 2002**
- University of West Florida students **1998 – 1999**

VOLUNTEERING

- Heritage Preparatory School Science Fair Judge **2015**
- Organizer STTC and Team Orlando: Seminole County Science Fair **2010 – 2014**
- Human Factors Ergonomics Society (HFES) **2013 – 2015**
- I/ITSEC technology host/mentor for high school students **2012**
- Assisted Boy Scouts in Wings and Things rocket build and launch **2012**
- United States Alliance for Technological Literacy, Miami **2012**
- UCF Science Olympiad **2012**
- National Healthy Kids Day **2001 – 2003**
- Safeguard of Central Florida **2000 – 2001**
- Horseshoe Creek Wildlife Park **2000 – 2001**
- United Way – Hands on Tampa **2000**
- Athletic trainer for Pensacola Ice Pilots Hockey **1997 – 1998**
- YMCA basketball coach for 9 and 10-year-old team **1992**