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EDUCATION

Ph.D. (2007) Developmental Psychology, Florida State University, Tallahassee, Florida

M.S. (2001) Clinical Psychology, University of Central Florida, Orlando, Florida

B.A. (1998) Psychology, Colgate University, Hamilton, New York

SECURITY CLEARANCE LEVEL: Secret

RESEARCH EXPERIENCE

University of Central Florida (2007-Present)

Position: Assistant Faculty in Researcher, Learning Team Lead (ACTIVE Lab) (2008-present)

Position: Postdoctoral Researcher, Learning Team Lead (ACTIVE Lab) (2007-2008)

Duties:

Working with a team of research assistants to identify ways to more efficiently train military personnel for field deployment and decision making in the field. Activities include a large-scale review of the current literature in the areas of cognitive psychology, education, and military research; theoretical development of how to more efficiently teach and train military personnel; empirical studies testing these theories including but not limited to the impact of different ways to present learning material to learners, mental model construction, and individual differences; and dissemination of our findings.

Deliverables include but are not limited to writing manuscript publications, conference papers, and grants, conference presentations, sponsor briefs, technical reports, technology development, and project management.

Position: Director of Research – CREATE Division (2006-2007)

Duties:

Organization and Mentoring – Worked with faculty in the school of film and digital media to create a strong research foundation and to promote grant writing, empirical research, and publications. Activities included meeting with faculty

members to review their research ideas and advise them on future project opportunities, coordinate groups of faculty members to create interdisciplinary teams to maximize grant opportunities, and assist with IRB submissions, data collection, analysis, and manuscript writing for empirical journals.

Established and Maintained Connections to Teachers and Schools – Worked with various schools in Orange county to help identify areas of need for teacher quality, classroom management, student engagement, and student success. Several projects were conducted including working with teachers of children with significant cognitive impairments, investigating the use of video games in the classroom to improve engagement and knowledge acquisition with high school students, and creating massive on-line games for college students to learn physics.

Reading Skills and Children with Significant Cognitive Impairments – Managed the TAILS FSU project through the continuation of the research described with FSU using a randomized treatment control group research design. Worked with two student assistants on data collection, entry, and analysis.

NSF Physics MMOG for Education – Worked with an interdisciplinary team of researchers and game developers to create a Massive Multiplayer On-line Game to use as a vehicle for physics education. Activities included coordinating the research and development efforts, conducting field testing at the high school and early college levels, analysis, and manuscript writing.

Florida State University (2005-2006)

Position: Assistant Faculty in Research

Duties:

Reading Skills and Children with Significant Cognitive Impairments – Conducted ongoing research relating to the study of how children with significant cognitive impairments learn to read, investigating the level of reading skills they are able to attain, and working with teachers to test a new reading program for use with this population. Additional activities included grant writing, developing future projects, collecting data, completing analyses, and publishing findings.

University of Central Florida - PROSE Lab (2004-2005)

Position: Research Assistant

Duties:

Independent Lab Research – Conducted ongoing research relating to the study of synthetic environments and their impact on learning. Managed a team of research assistants to write grants, develop projects, collect data, complete analysis, and publish findings.

National Science Foundation Catalyst Grant – Lead a team of researchers to complete a meta-analysis comparing traditional educational methods to technology enhanced methods.

SWUC – Worked with the Southwest United Communities in Orlando to create a digital pre-Kindergarten program for underprivileged minority children.

Florida State University - Florida Center for Reading Research (2004-2006)

Position: Research Assistant

Duties:

Volunteer Reading Programs – Worked with a team of researchers to complete a meta-analysis comparing outcome data for reading programs used with at-risk children that utilize volunteers for tutoring.

HANDS Lab (2002-2007) (*Helping Advance the Needs of Deaf Students*)

<http://pegasus.cc.ucf.edu/~psych/hands>

Position: Lab Director

Duties:

Independent Lab Research – Conducted research relating to the social, emotional, educational adjustment, and family dynamics of children who are Deaf. Managed a team of research assistants to develop projects, collect data, complete analysis, and publish findings.

Hear Me Foundation – Created a video for a public service announcement describing the difficulties facing children who are deaf who use cochlear implants to hear. Also worked with the Foundation to write grants to propose future research activities with oral deaf children.

Orange County Economic Development Grant – Lead a team of researchers and external company teams to alter a virtual reality FCAT learning tool to include gaming attributes such as score keeping and rewards. Data collected to compare achievement scores between groups using the program with and without gaming attributes.

Social and Emotional Development of Deaf Children – Project focused on determining the true progression of social and emotional development of children who are deaf. The study emphasized a comparison between hearing and deaf children's development.

Camp Hear Me - Conducted independent research investigating the social and emotional development of deaf children.

VREAL Project – FCAT Improvement – Conducted a program evaluation for Veridian Information Solutions regarding their virtual reality project for deaf children. Activities included scenario, question, and hint development, a presentation summarizing recent research on teaching test taking skills, data compilation and statistical analysis, a full written document outlining all findings, and a verbal presentation of the information.

VREAL Project – Life Skills Education – Conducted a program evaluation for Veridian Information Solutions regarding their virtual reality pilot project for deaf children. Activities included creating a simulator sickness scale for children and various questionnaires regarding the program, behavioral observation of participants, statistical analysis, a full written document outlining all findings, and a verbal presentation of the information.

Spatial Abilities in Humans - Conducted independent research investigating the lateralization of spatial abilities in the human brain.

Colgate University (1995-1996)

Position: Independent Research & Research Assistant

Duties:

Independent Lab Research - Conducted independent research investigating how the understanding of the Deaf culture can improve perceptions of Deaf people as employees.

Research Assistant - Tested participants, compiled and analyzed data for a study investigating leaders' communication skills, helped to design a project investigating how hazing affects peoples' decisions to join groups, tested a computer program designed to improve students' statistical knowledge, assisted with research involving nonverbal communication.

Manhattan College (1996)

Position: Research Assistant

Duties:

Awarded a grant from the Pew New York Foundation to conduct research involving the connection between symmetry of faces and attractiveness.

SERVICE TO K-12 SCHOOLS

2002 Mentor, ASPIRE program (high school internship program)

1996 Interpreter/Aide to first grade deaf child

1990-1994 Aide/Supervisor to elementary aged deaf children

SERVICE TO JOURNALS

Brain and Cognition

(2009) Reviewer – Topic: Handedness and visual spatial abilities.

Journal of Computer Assisted Learning

(2008) Reviewer – Topic: Effects of interactivity in educational games.

FUNDED RESEARCH

Bowers, C.A. & **Vogel, J.** (2001, April). Support for a program evaluation for a virtual reality system to improve life skills in deaf children (\$25,000), Veridian Information Systems.

Bowers, C.A. & **Vogel, J.** (2002, April). Support for scenario development for a virtual reality system for deaf children (\$5,000), Veridian Information Systems.

Vogel, J. (2003, April). Support for a program evaluation for a virtual reality system to improve academic skills in deaf children (\$5,000), General Dynamics.

Vogel, J. (2006, October). Support for researching the use of a new phonics-based reading program (TAILS) developed at Florida State University for use with children with significant cognitive impairments (\$20,000), Florida State University, Florida Department of Education.

Vogel, J. (2007, January). Continued support for researching the use of the TAILS reading program for use with children with significant cognitive impairments (\$42,757), Florida State University, Florida Department of Education.

PUBLICATIONS

Bowers, C., **Vogel-Walcutt, J.J.**, Cannon-Bowers, J. (2008). The role of individual differences in virtual environment-based training. In D. Schmorrow, J. Cohn, D. Nicholson & (Eds.) *Handbook of Virtual Environments for Training and Education*.

Asberg, K., **Vogel, J.** Bowers, C. (2008). Exploring correlates and predictors of stress in parents of deaf children: Implications of perceived social support and mode of communication. *Journal of Child and Family Studies*, 17, 486-499.

Vogel, J., Greenwood-Ericksen, A., Cannon-Bowers, J., & Bowers, C.B., (2006). Using virtual reality with and without gaming attributes for academic achievement. *Journal of Research on Technology in Educational*, 39(1), 105-118.

Vogel, J., Vogel, D., Cannon-Bowers, J., Bowers, C.B., Muse, K., & Wright, K. (2006). Computer and interactive simulations for learning: A meta-analysis. *Journal of Educational Computing Research*, 34(3), 229-243.

Vogel, J., Keating, C.F. (2005). Deaf employment as influenced by potential employers' perceptions: Pathologic vs. sociocultural perspectives. *International Journal of Rehabilitation Research*, 28(2).

Vogel, J. Bowers, C. (2005). Working with disabled clients: Similarities and differences between client and therapist. In C. Negy (Ed.), *Cross-cultural psychotherapy: Toward a critical understanding of diverse client populations*. Bent Tree Press, Inc.

Vogel, J., Bowers, C., Meehan, C., Hoeft, R., Bradley, K. (2004). Virtual Reality for Life Skills Education: Program Evaluation. *Deafness and Education International*, 6(1), 39-50.

Vogel, J., Bowers, C., & Vogel, D. (2003). Cerebral lateralization of spatial abilities: A meta-analysis. *Brain and Cognition*, 52, 197-204.

Bowers, C., Price, C., Cannon-Bowers, J., LaBarba, R., Borjesson, W., & **Vogel, J.** (2000) Decision making in dual-task environments: Analysis of hemispheric competition effects. *Perceptual and Motor Skills*, 91, 237-245.

Vogel, D., **Vogel, J.**, Lee, D., & Larkowich, A. (2000). Intelligent healthcare: Using artificial intelligence for predicting high risk outcomes. *PC-AI*, 14(2), 32,48-49.

MANUSCRIPTS UNDER REVIEW

Vogel-Walcutt, J.J., Gebrim, J. B., Bowers, C.A., & Nicholson, D. (2009). Animated versus static images of team processes to affect knowledge acquisition and learning efficiency. *International Journal of Human Computer Interaction*. Manuscript in preparation.

MANUSCRIPTS IN PREPARATION

Vogel-Walcutt, J.J., Schatz, S., Bowers, C.A., & Nicholson, D. (2009). Assessment and Mitigation of State Boredom: Implications from Cognitive Science, Psychology, and Educational Research. Manuscript in preparation.

Del Giudice, K., **Vogel-Walcutt, J.J.**, Bowers, C.A., & Nicholson, D. (2008). Using a video game as an advanced organizer: Effects on development of procedural and conceptual knowledge, cognitive load, and casual adoption. Manuscript in preparation.

Vogel-Walcutt, J.J., Fiore, S., Fiorella, L., Nicholson, D. (2009). Embedding meta-cognitive prompts during scenario based training: Declarative versus conceptual knowledge prompts to affect knowledge acquisition and application. Manuscript in preparation.

Vogel, J., Schatschneider, C., & Bowers, C.A. (2009). Social-Emotional development of deaf children. Manuscript in preparation.

Vogel-Walcutt, J.J., Bowers, C.A., Marino-Carper, T., & Nicholson, D. (2009). Increasing Learning efficiency in military learning: Combining efficiency and deep learning theories. Manuscript in preparation.

Vogel-Walcutt, J.J., Gebrim, J.B., Nicholson, D. (2009). Cognitive Load Theory and Constructivist Approaches: Which one best leads to efficient deep learning? Manuscript in preparation.

Vogel-Walcutt, J.J., Marino-Carper, T., Fidopiastis, C., Davis, L., Bowers, C., & Nicholson, D. (2009). Using Neuro-physiological to Identify Sub-Optimal Learning Conditions. Manuscript in preparation.

Vogel, J., Asberg, K., Vogel, D. & Bowers, C.B., (in preparation). Using virtual reality to improve standardized test scores in deaf children: Program evaluation.

TECHNICAL REPORTS

Beech, M., **Vogel-Walcutt, J.J.**, & Al-Otaiba, S., Donaldson, B., Doyle, C., & Coulles, L. (2007). Improving the Effectiveness of Reading Instruction for Students Cognitive Disabilities.

Beech, M., **Vogel, J.**, & Al-Otaiba, S. (2006). Investigation of the Effects of Reading Instruction on Elementary Students with Significant Cognitive Disabilities.

Beech, M., Wahlon, K., Al-Otaiba, S., Donaldson, B., & **Vogel, J.** (2005). Teaching Reading to Students with Moderate Cognitive Disabilities: Year One.

Vogel, J., & Bowers, C. (2002) Using virtual reality to improve FCAT scores in deaf children: program evaluation. (Tech. Rep. No. 2). Orlando, FL: University of Central Florida, HANDS Lab.

Vogel, J., Meehan, C., Hoeft, R., Bradley, K., & Bowers, C. (2001) Virtual reality for life skills education: Program evaluation. (Tech. Rep. No. 1). Orlando, FL: University of Central Florida.

PRESENTATIONS

Vogel-Walcutt, J.J., Fiore, S., Bowers, C., & Nicholson, D. (2009). Embedding metacognitive prompts during SBT to improve knowledge acquisition. Paper to be presented at the 53rd annual meeting of the Human Factors and Ergonomic Society, October 19-23, San Antonio, TX.

Vogel-Walcutt, J.J., Schatz, S., Fiore, S., & Nicholson, D. (2009). Advancing the science of training in simulation-based training. Symposium to be presented at the 53rd annual meeting of the Human Factors and Ergonomic Society, October 19-23, San Antonio, TX.

Vogel-Walcutt, J.J., Nicholson, D., & Bowers, C. (2009). Translating learning theories into physiological hypotheses. Paper to be presented at the Human Computer Interaction Conference, July 19-24, San Diego, CA.

Fiore, S. & **Vogel-Walcutt, J.J.**, (2009). Empirical Team Research Update: Next Generation Expeditionary Warfare Intelligent Training (NEW-IT). Paper presented at the ONR review, February 24, Orlando, FL.

Vogel-Walcutt, J.J., Nicholson, D. (2009). Applied Learning Science Team Update. Paper presented at the ONR HPT&E: AITE program review, January 22, San Diego, CA.

Vogel-Walcutt, J.J., Bowers, C.A., & Fiore, S. (2008). Empirical Team Research Update: Next Generation Expeditionary Warfare Intelligent Training (NEW-IT). Paper presented at the ONR review, September 9, Orlando, FL.

Vogel-Walcutt, J.J., Bowers, C.A., Schatz, S., Davis, L., Burke, S. & Milham, L. (2008). Applied Learning Science Team Update. Paper presented at the ONR AITE program review, September 9, Orlando, FL.

Vogel-Walcutt, J.J., Schatz, S., Sciarini, L., Gebrim, J.B., Bowers, C.A., & Nicholson, D. (2008). Varying Workload: A validation of the DVTE system. Paper presented at the 52nd Annual Conference of the Human Factors and Ergonomics Society, New York, NY, September 22-26.

Vogel-Walcutt, J.J., Schatz, S., & Bowers, C.A. (2008). Learning Team Mid-Year Review. Paper presented at the ONR review, February 20, Orlando, FL.

Nicholson, D., Schmorow, D., Stripling, R., Bowers, C.A., Davis, L., Drexler, J., Fidopiastis, C., & **Vogel-Walcutt, J.J.** (2008). AugCog-Enabled Ergonomics: Design and Application Examples for Researchers. Tutorial to be presented at the 2nd International Conference on Applied Ergonomics, Las Vegas, NV, July 14-17.

Schatz, S.L., Bowers, C.A., Nicholson, D., & **Vogel-Walcutt, J.J.** (2008). Trait arousability: An individual difference that may actually be useful for designers. Paper to be presented at the 2nd International Conference on Applied Ergonomics, Las Vegas, NV, July 14-17.

Vogel-Walcutt, J.J., Schatz, S.L., Bowers, C.A., & Nicholson, D. (2008). Learning Efficiency in Complex Domains: Implications from Cognitive Load Theory. Paper to be presented at the 2nd International Conference on Applied Ergonomics, Las Vegas, NV, July 14-17.

Beech, M., **Vogel, J.**, Al Otaiba, S., & Donaldson, B. (2007). Investigation of the Effects of Reading Instruction on Elementary Students with Significant Cognitive Disabilities. Paper presented at the Florida Reading Research Conference, Tampa, Florida.

Al Otaiba, S., **Vogel, J.**, Nicholas, K., Petscher, Y., & Dyrland, A. (2007). A Meta-Analysis of Volunteer Tutoring Programs for Beginning Readers. Poster presented at the Florida Reading Research Conference, Tampa, Florida.

Beech, M., Al-Otaiba, S., & **Vogel, J.** (2006). Teaching Reading to Students with Significant Cognitive Disabilities. Paper presented at the Just Read! Florida Leadership Conference, Orlando, FL.

Al-Otaiba, S., Donaldson, B., & **Vogel, J.** (2006). Dialogic Book Reading Strategies: Teaching Vocabulary and Comprehension. Paper presented at the Seminar for Vocabulary and Book Reading, Orlando, FL.

Vogel, J., Greenwood-Ericksen, A., Cannon-Bowers, J., Bowers, C.B. (2005). Using Virtual Reality with and without Gaming Attributes for Academic Achievement. Poster presented at the Annual Meeting of the American Psychological Association.

Vogel, J. & Al-Otaiba, S. (2005). Early intervention reading programs: A meta-analysis. Poster presented at the Second Annual Graduate Research Day.

Vogel, J. (2005). Using Virtual Reality with Deaf Children. Paper presented at the Modeling, Simulation & Training techPATH, Daytona Beach, FL.

Vogel, J. (2004). Research with Oral Deaf Children: Where is it? Paper presented at the annual meeting at Camp Hear Me, Houston, Texas.

Vogel, J. (2004). Using Virtual Reality with Deaf Children. Paper presented at the Modeling, Simulation & Training techCAMP, Sarasota, FL.

Axelrod, R., Vogel, D., **Vogel, J.** (2004). Predictive Modeling in Health Plans. Poster presented at the 10th Annual Building Bridges Conference of the AHIP, Miami, Florida.

Vogel, J., Muse, K., Meehan, C., Bradley, K. & Bowers, C. (2004). Evaluating Loneliness in Deaf Children. Poster presented at the 50th annual meeting of the Southeastern Psychological Association, Atlanta, Georgia.

Vogel, J., Muchow, B., Asberg, K., & Brown, P. (2004). Interpersonal Relations Among Oral Deaf Children. Poster presented at the 50th annual meeting of the Southeastern Psychological Association, Atlanta, Georgia.

Vogel, J. (2004). Using virtual reality with deaf children. Paper presented at the Electronic information technology in business, education and exhibits for the science center industry Conference. Orlando, Florida.

Vogel, J., & Asberg, K. (2004). Virtual reality with special education populations. Poster to be presented at the meeting of the American Psychological Association, Honolulu, Hawaii.

Hoeft, R. M., **Vogel, J., & Bowers, C. A.** (2003). Kids get sick too: A proposed child simulator sickness questionnaire. Poster presented at the meeting of the Human Factors and Ergonomic Society, Denver, CO.

Vogel, J., Bowers, C., & Brown, P. (2003). Using Virtual Reality for Standardized Test Score Improvements: Program Evaluation. Poster presented at the meeting of the Association for Advancement of Behavior Therapy, Boston, MA.

Asberg, K., **Vogel, J.** Bowers, C. (2003). Moderators of Stress in Parents of Hearing Impaired Children. Poster presented at the meeting of the Association for Advancement of Behavior Therapy, Boston, MA.

Vogel, J., Brown, P., Asberg, K., & Bowers, C. (2003, August). Assessing Secure Attachment in Oral Deaf Children. Poster presented at the meeting of the American Psychological Association, Toronto, Canada.

Vogel, J., & Asberg, K. (2003, March). HANDS Lab Update. *Hear Me Says...*, 8, 5.

Vogel, J., Brown, P., & Bowers, C. A. (2003, January). VREAL project assessment overview. Paper presented at the Virtual Reality Education for Assisted Learning Symposium, Orlando, FL.

Vogel, J., Brown, P., Asberg, K. & Bowers, C. A. (2002, October). HANDS Lab project overview. Paper presented at Camp Hear Me, Houston, TX.

Vogel, J., Brown, P., & Bowers, C. A. (2002, October). VREAL project assessment. Paper presented at the Virtual Reality Education for Assisted Learning Symposium, Orlando, FL.

Vogel, J., & Bowers, C. (2002, August). HANDS. *Hear Me Says...*, 7, 5.

Vogel, J., Meehan, C., Hoeft, R., Bradley, K., & Bowers, C. (2002, August). Virtual reality for life skills education: Program evaluation. Poster presented at the meeting of the American Psychological Association, Chicago, IL.

Vogel, J., Meehan, C., Hoeft, R., Bradley, K., & Bowers, C. (2002, August). Virtual Reality for Life Skills Education: Teacher's Evaluation. Poster presented at the meeting of the American Psychological Association, Chicago, IL.

Bowers, C., **Vogel, J.**, Meehan, C., Hoeft, R., & Bradley, K. (2001, May). VREAL project assessment. Paper presented at the Virtual Reality Education for Assisted Learning Symposium, Orlando, FL.

Salas, E., Bowers, C. A., **Vogel, J.**, Meehan, D., & Bradley, K. (2001, January). Simulation and training: Lessons learned for special needs education. Paper presented at the Virtual reality Education for Assisted Learning Symposium, Orlando, FL.

Friedenberg, J. & **Vogel, J.** (1997). Facial attractiveness and feature laterality. Poster presented at the meeting of the Eastern Psychological Association, Boston, MA.