

# Kyle J. Johnsen

*Curriculum Vitae – July 17, 2008*

## PERSONAL INFORMATION

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Driftmier Engineering Center Rm 503  
University of Georgia  
Athens, GA 30602-4435

(352) 219-5419 (voice), 706-542-8806 (fax)  
[kjohnsen@uga.edu](mailto:kjohnsen@uga.edu), <http://www.cise.ufl.edu/~kjohnsen>

Member ACM, IEEE

## EDUCATION

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University of Florida – Gainesville, FL

**PhD in Computer Engineering**

**Dissertation:** *Design and Validation of a Virtual Human System for Interpersonal Skills Education*

**Advisor:** *Benjamin Lok*

University of Florida – Gainesville, FL

**MS in Computer Engineering**

University of Florida – Gainesville, FL

**BS in Computer Engineering**

## PROFESSIONAL EMPLOYMENT (SUMMARY)

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August 2008 – Present) **Assistant Professor** – Faculty of Engineering, *University of Georgia, Athens, GA*

(August 2003 – August 2008) **Research Fellow** – Department of Computer and Information Science and Engineering, *University of Florida, Gainesville, FL*.

(August 2004 – December 2006) **Teaching Assistant** – Department of Computer and Information Science and Engineering, *University of Florida, Gainesville, FL*.

### Research Interests

Simulation-based Training, Natural Interfaces, Human Computer Interaction, Serious Games, Virtual Humans, Virtual Reality, Computer Graphics, Computer Vision

## TEACHING

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### University of Florida

*Fall 2006: Teaching Assistant, Introduction to Computer Science (CIS3020)*

*Summer 2005: Lecturer, Introduction to Computer Organization (CDA3101)*

*Spring 2005: Teaching Assistant, Introduction to Computer Information Science (CIS3020)*

*Fall 2004: Teaching Assistant, Introduction to Computer Organization (CDA3101)*

## AWARDS

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(November 2006) Howard Hughes Medical Institute Award for Graduate Student Research with an Undergraduate

(August 2003 – July 2007) University of Florida Alumni Fellowship

## PUBLICATIONS

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### Journal Articles

Deladisma, Adeline, Marc Cohen, Amy Stevens, Peggy Wagner, Benjamin Lok, Thomas Bernard, Christopher Oxendine, Lori Schumacher, **Kyle Johnsen**, Robert Dickerson, Andrew Rajj, Rebecca Wells, Margaret Duerson, J. Garrett Harper, D. Scott Lind (2007). "Do Medical Students Respond Empathetically to a Virtual Patient?" *American Journal of Surgery*. 193(6): 756-760.

- Raij, Andrew, **Kyle Johnsen**, Robert Dickerson, Benjamin Lok, Marc Cohen, Amy Stevens, Thomas Bernard, Christopher Oxendine, Peggy Wagner, D. Scott Lind (2006). "Comparing Interpersonal Interactions with a Virtual Human to those with a Real Human" *IEEE Transactions on Visualization and Computer Graphics*. 13(3): 443-457.
- Lok, Benjamin, Rick Ferdig, Andrew Raij, **Kyle Johnsen**, Robert Dickerson, Jade Coutts, Amy Stevens, D. Scott Lind (2006). "Applying Virtual Reality in Medical Communication Education: Current Findings and Potential Teaching and Learning Benefits of Immersive Virtual Patients" *Journal of Virtual Reality*. 10(3):185-195
- Johnsen, Kyle**, Robert Dickerson, Andrew Raij, Benjamin Lok, Jonathan Jackson, Min Shin, Jonathan Hernandez, Amy Stevens, Scott Lind (2005). "Evolving an Immersive Medical Communication Skills Trainer," *Journal on Presence: Teleoperators and Virtual Environments*. 15(1):33-46.
- Stevens, Amy, Jonathan Hernandez, **Kyle Johnsen**, Robert Dickerson, Andrew Raij, Jonathan Jackson, Min Shin, Juan Cendan, Margaret Duerson, Benjamin Lok, D. Scott Lind (2005). "The Use of Virtual Patients to Teach Medical Students Communication Skills" *American Journal of Surgery*. 191(6):806-811.

### Conference Articles

- B. Rossen, **K. Johnsen**, A. Deladisma, D. S. Lind, and B. Lok Virtual Humans Elicit Skin-Tone Bias Consistent with Real-World Skin-Tone Biases. in *Intelligent Virtual Agents*, 2008
- Johnsen, Kyle**, Benjamin Lok (2008). "An Evaluation of Immersive Displays for Virtual Human Experiences" in *IEEE Virtual Reality 2008*.
- Johnsen, Kyle**, Andrew Raij, Amy Stevens, D. Scott Lind, Benjamin Lok (2007). "The Validity of a Virtual Human Experience for Interpersonal Skills Education" *Proceedings of ACM SIGCHI 2007*.
- Raij, Andrew, **Kyle Johnsen**, Robert Dickerson, Benjamin Lok, Marc Cohen, Amy Stevens, Thomas Bernard, Christopher Oxendine, Peggy Wagner, D. Scott Lind (2006). "Interpersonal Scenarios: Virtual  $\approx$  Real?" *Proceedings of IEEE VR2006*.
- Dickerson, Robert, **Kyle Johnsen**, Andrew Raij, Benjamin Lok, Thomas Bernard, Amy Stevens, D. Scott Lind (2006). "Virtual Patients: Assessment of Synthesized Versus Recorded Speech," *Proceedings of Medicine Meets Virtual Reality 14*, 114-119.
- Bernard, Thomas, Amy Stevens, Peggy Wagner, Nicole Bernard, Lori Shumacher, **Kyle Johnsen**, Robert Dickerson, Andrew Raij, Benjamin Lok, Margaret Duerson, Marc Cohen, D. Scott Lind (2006). "A Multi-Institutional Pilot Study to Evaluate the Use of Virtual Patients to Teach Health Professions Students History-Taking and Communication Skills" *Proceedings of the Society of Medical Simulation Meeting*.
- Dickerson, Robert, **Kyle Johnsen**, Andrew Raij, Benjamin Lok, Jonathan Hernandez, Amy Stevens, and D. Scott Lind (2005). "Evaluating a Script-Based Approach to Simulating Patient-Doctor Interaction" *Proceedings of SCS 2005 International Conference on Human-Computer Interface Advances for Modeling and Simulating (SIMCHI '05)*, 79-84.
- Johnsen, Kyle**, Robert Dickerson, Andrew Raij, Benjamin Lok, Jonathan Jackson, Min Shin, Jonathan Hernandez, Amy Stevens, Scott Lind (2005). "Experiences in Using Immersive Virtual Characters to Educate Medical Communication Skills" *Proceedings of IEEE Virtual Reality 2005*.

### Abstracts/Poster/Presentations

- Deladisma, Adeline, Marc Cohen, Amy Stevens, Peggy Wagner, Benjamin Lok, Thomas Bernard, Christopher Oxendine, Lori Schumacher, **Kyle Johnsen**, Robert Dickerson, Andrew Raij, Rebecca Wells, Margaret Duerson, J. Garrett Harper, D. Scott Lind (2006). "Is There a Difference in the Empathetic Response of Health Professions to Standardize Patients and Virtual Patients?" *Proceedings of the Association of Surgical Education 2006*.
- Stevens, Amy, Jonathan Hernandez, **Kyle Johnsen**, Robert Dickerson, Andrew Raij, Jonathan Jackson, Min Shin, Juan Cendan, Margaret Duerson, Benjamin Lok, D. Scott Lind (2005). "The Use of Virtual Patients to Teach Medical Students Communication Skills" *Proceedings of Association of Surgical Education Meeting 2005*.
- Cohen, Marc, Amy Stevens, Peggy Wagner, Benjamin Lok, Thomas Bernard, Christopher Oxendine, Lori Schumacher, **Kyle Johnsen**, Robert Dickerson, Andrew Raij, Margaret Duerson, and D. Scott Lind. 2006. "Do Health Professions Students Respond Empathetically to a Virtual Patient?" Presentation at Southern Group on Education Affairs 2006.

- Stevens, A., Marc Cohen, **Kyle Johnsen**, Robert Dickerson, Andrew Rajj, Rebecca Wells, Chris Oxendine, Peggy Wagner, Thomas Bernard, Juan C Cendan, Margaret Duerson, Rebecca Pauly, Benjamin Lok, D. Scott Lind. "Implementing a Virtual Patient (VP) into the Medical School Curriculum at the University of Florida (UF)" Presentation at Southern Group on Education Affairs 2006.
- Stevens, Amy, Jonathan Hernandez, **Kyle Johnsen**, Robert Dickerson, Andrew Rajj, Jonathan Jackson, Min Shin, Juan Cendan, Margaret Duerson, Benjamin Lok, D. Scott Lind (2005). "The Use of Virtual Patients to Teach Medical Students Communication Skills" Presentation at Southern Group on Education Affairs 2005.
- Cendan, Juan, Benjamin Lok, Cyrus Harrison, **Kyle Johnsen**, Robert Dickerson, Min Shin, Amy Stevens, Margaret Duerson, D. Scott Lind (2004). "Multimodal Interaction with Life-Sized Virtual Characters for Training and Education" Florida Technology Transfer Conference, 2004.
- Cendan, Juan, Benjamin Lok, Cyrus Harrison, **Kyle Johnsen**, Robert Dickerson, Min Shin, Amy Stevens, Margaret Duerson, D. Scott Lind (2004). "The Use of Virtual Patients and Instructors to Teach Clinical Presentations", 4th Annual Medical Education Week, College of Medicine, University of Florida, 2004.

## SERVICE

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### Panels

- (2007) IEEE Virtual Reality 2007. "Building the Future of and a Career in VR".

## INVITED TALKS

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- (2007) "Immersive Virtual Humans for Medical Education", Grand Rounds, University of Florida
- (2007) "The Validity of a Virtual Human Experience for Interpersonal Skills Education", Lecture Series on Graphics and Visualization (G2V2), University of Florida
- (2006) Demo at the Southern Group on Educational Affairs 2006, Galveston, TX
- (2005) "Experiences in Using Immersive Virtual Characters to Educate Medical Communication Skills" Graphics Lunch, University of North Carolina, Chapel Hill
- (2005) "Experiences in Using Immersive Virtual Characters to Educate Medical Communication Skills" Lecture Series on Graphics and Visualization (G2V2), University of Florida

**REFERENCES**

Name:	<b>Benjamin Lok, PhD</b>
Postal Address:	CSE Room 342 Department of Computer and Information Science and Engineering University of Florida – P.O. Box 116120 Gainesville, FL 32611-6120
Telephone:	(352) 392-1492
Internet:	lok@cise.ufl.edu
Comments:	Assistant Professor
Name:	<b>David Scott Lind, MD</b>
Postal Address:	BB4514 Department of Surgery Medical College of Georgia Augusta, GA 30912
Telephone:	(706) 721-4726
Internet:	dlind@mail.mcg.edu
Comments:	Section Chief of Surgical Oncology
Name:	<b>Amy Stevens, MD</b>
Postal Address:	Surgical Services NF/SG VA Health System 1601 SW Archer Road(112) Gainesville, FL 32608
Pager:	pager (352)380-3158
Telephone:	phone (352)271-4555 or (800)324-8387 ext 4555
Internet:	Amy.Stevens@va.gov
Comments:	Chief of the Division of Gynecology
Name:	<b>Richard Ferdig, PhD</b>
Postal Address:	College of Education 2403 Norman Hall Gainesville, FL 32611
Telephone:	(352) 392-9191 ext 275
Internet:	rferdig@coe.ufl.edu
Comments:	Associate Professor
Name:	<b>Jorg Peters, PhD</b>
Postal Address:	CSE Room 328 Department of Computer and Information Science and Engineering University of Florida – P.O. Box 116120 Gainesville, FL 32611-6120
Telephone:	(352) 392-1226
Internet:	jorg@cise.ufl.edu
Comments:	Professor