Andrew Kenneth Ho

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Education

Ph.D. Candidate, Electrical and Computer Engineering, University of British Columbia

M.E.Sc., Biomedical Engineering, University of Western Ontario, 2010.
Thesis: "An Interactive Computer Model of the Eardrum for Surgical Simulation"

B.E.Sc. with Distinction, Electrical and Computer Engineering, University of Western Ontario, 2008.

Employment

Assistant Video Algorithms Designer, 2006-2007
Gennum Corporation, Burlington, Ontario, Canada

Publications

Journal Articles

Ho A.K., Tsou, L., Green, S., and Fels, S.S. "A 3D Swallowing Simulation using Smoothed Particle Hydrodynamics," *Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization*, Published online 2014.

Ho A.K., Alsaffar, H.A., Doyle P.D., Agrawal S.K., and Ladak H.M. "Virtual Reality Myringotomy Simulation with Real-Time Deformation: Development and Validity Testing," *The Laryngoscope* 2012 Aug;122(8):1844-51.

Peer-reviewed Posters

Ho A.K., Nicosia, M.A., Dietsch, A., Pearson, W., Rieger, J., Solomon, N., Stone, M., Inamoto, Y., Saitoh, E., Green, S., and Fels, S.S. "3D Dynamic Visualization of swallowing from Multi-Slice Computed Tomography," August 2014, SIGGRAPH, Vancouver, BC. *2^{nd} place winner in the student research competition.*

Proceedings

Ho, A.K., Alsaffar, H.A., Doyle, P.D., Agrawal, S.K., and Ladak, H.M. "Interactive Computer Model of the Eardrum for Training in Myringotomy," February 2011, *34^{th} ARO MidWinter Meeting*, Baltimore, MD.

Ho, A.K., and Ladak, H.M. "Mass-spring Modeling of the Eardrum for Surgical Simulation," June 2010, *CMBEC 33*, Vancouver, BC.

Invited Talks

Ho A.K., Nicosia, M.A., Green, S. and Fels, S.S. "An Image-based Model of Human Swallowing using Smoothed Particle Hydrodynamics" May 2014, *GRAND 2014 Research Notes*, Ottawa, ON.

Ho A.K., and Fels, S.S. "A 3-Dimensional Computer Simulation of Swallowing using Smoothed Particle Hydrodynamics," May 2013, *GRAND 2013 Research Notes*, Toronto, ON.

Workshops

Ho A.K., Fels, S.S., and Green, S. "A Viscous SPH Simulation Applied to Swallowing," February 2013, 1^{st} *International Workshop on Biomechanical and Parametric Modeling of Human Anatomy,* Vancouver, BC.

Agrawal, S.K., Ladak, H.M., **Ho, A.K.** "Surgical Simulation in Otolaryngology," May 2010, *Canadian Society of Otolaryngology - 64^{th} Annual Meeting*, Niagra Falls, ON.

Honours and Awards

2^{nd} place in the student research competition, $300, 2014
SIGGRAPH Vancouver

Honourable Mention, "Footsy", IEEE Project Fair, 2012
University of British Columbia

Western Graduate Research Scholarship, 2008-2010
University of Western Ontario

NSERC Undergraduate Student Research Award, 2008
University of Western Ontario

Teaching Assistantships

The University of British Columbia

EECE210 Object Oriented Programming

EECE478 Computer Graphics

EECE355 Digital Systems and Microcomputers

EECE251 Circuit Analysis I

EECE259 Introduction to Microcomputers

EECE2XX Cognitive Sessions

The University of Western Ontario

ES1036 Introduction to C++

ES1050 Introductory Engineering Design and Innovation Studio