

Lutana H. Haan, MHS, RRT, RPSGT
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EDUCATION

- 2009 Boise State University - Boise, Idaho
Master of Health Science Degree, Health Promotion emphasis
- 1996 Boise State University - Boise, Idaho
Bachelor of Science in Respiratory Therapy

PROFESSIONAL CERTIFICATION

- 2012 American Heart Association BLS Instructor
- 1998 Registered Polysomnographic Technician Board of Registered Polysomnographic Technicians
- 1996 Registered Respiratory Therapist National Board for Respiratory Care

LICENSURE

- Idaho State Board of Medicine Idaho License of Respiratory Therapy
LRT-1029

WORK EXPERIENCE

2015-present

Boise State University, Boise, ID
Chair, Department of Respiratory Care

2003-present

Boise State University, Boise, ID
Department of Respiratory Care Assistant Professor
(Promoted 2010)/Instructor

- Courses Taught
 - RESPCARE 203 Respiratory Care Theory I (Lecture)
 - RESPCARE 204 Respiratory Care Lab I (Lab)
 - RESPCARE 205 Recitation I (Application class)
 - RESPCARE 208 Respiratory Care Clinical I (Clinical: Veterans affairs)
 - RESPCARE 105 Interprofessional Patient Care Skills (Lecture and Lab)
 - RESPCARE 442 Sleep Medicine (on-line)
 - RESPCARE 441 Teaching Techniques for Health Care Professionals (on-line)
 - RESPCARE 445 & UF 300: Patient Advocacy and Ethical Considerations (on-line)
 - RESPCARE 223 Respiratory Care Theory II (Lecture)
 - RESPCARE 224 Respiratory Care Lab II (Lab)
 - RESPCARE 225 Recitation II (Application class)
 - RESPCARE 228 Respiratory Care Clinical I (Clinical: Veterans affairs)
 - RESPCARE 325 Recitation II (Application class)

- Simulation Experience
 - Began development of simulation in Interdisciplinary Skills Course in 2007
 - Wrote 16 simulations
 - Facilitate simulation 1-2 times per week for 7 years
 - Developed and ran interprofessional simulation experienced for upper division courses
 - Co-developer of Simulation room in Health Science Riverside
- Faculty in Residence, Living Learning Community Health Professions Residential College
 - HLTHST 105 Living Learning Community
 - FY 2012-2013 & FY 2013-2014

1996-2003

Idaho Sleep Disorders Center, St. Luke's Regional Medical Center, Boise, ID
Clinical Coordinator (2000-2003)

- Pediatric Sleep Testing
- Developed a 9-week on-the-job training program
- Maintained a support group for patients with sleep disorders, AWAKE
- Performed 4-channel apnea studies.

Sleep Technician (1996-2000)

- Performance of Polysomnography studies
- Sleep staging, respiratory event scoring, and generating reports to summarize sleep study findings.
- Performance of 4-channel apnea studies

1996-1997

Mercy Medical Center, Nampa, ID
Respiratory Therapist

- Performing full scope of Respiratory treatments including ICU ventilator care, pediatric therapies, and general floor Respiratory care.

PROFESSIONAL DEVELOPMENT

CONTINUING EDUCATION

- Pacific Northwest Sleep Association Bi-Annual Meeting (1999, 2003)
- American Academy of Sleep Medicine and Association of Polysomnographic Technologists annual meeting (2000, 2006)
- Idaho State Sleep Disorders Association Annual Meeting (1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2012, 2013, 2015, 2016)
- Idaho Sleep Professionals Association Annual Meeting (2015)
- John Butler Lung Conference (1999, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014)
- Idaho Society for Respiratory Care (2003, 2005, 2006, 2008, 2010, 2012, 2013, 2014, 2016)
- Mayo Clinic Summer Simulation Conference (2006)

- Sleep Conference: Saint Alphonsus Sleep Disorders Center (2006,2007, 2008)
- BSU Center for Teaching and Learning Workshops: Active Learning (2006),
- Engaging Students in Lecture (2010), Designing Group Work (2011), Getting Beyond Content (2011), Introduction to Team Based Learning (2011), Team Based Learning (2011) Great Ideas for Teaching and Learning Symposium (2012, 2013,2014, 2015, 2017), B-Mobile Day, Using E content (2012)
- School of Sleep Medicine: Stanford Sleep Disorders Center (2007)
- TEAM Steps: Agency for Healthcare Research & Quality (2009)
- American Academy for Respiratory Care International Convention (2011, 2013, 2014, 2015, 2016)
- Innovation in Medical Design, Boise State University College of Health Science (2011)
- National League of Nursing, Beyond the Basics: Innovative Simulation Topics for Health Care Educators (2012)
- National League for Nursing/Boise State University 2nd Simulation Conference (2014)
- American Academy of Respiratory Care, Summer Forum (2013, 2014, 2015, 2016)

INVITED PRESENTATIONS

International

Haan, L., American Association of Respiratory Care, International Congress, “Optimizing Patient Communication”. San Antonio TX, Oct 15, 2016

Haan, L., American Association of Respiratory Care, International Congress, “Sleep Disordered Breathing in the ICU and Beyond”. San Antonio TX, Oct 15, 2016

Haan, L., American Association of Respiratory Care, International Congress, “Budgeting for Simulation”. San Antonio TX, Oct 15, 2016

Haan, L., American Association of Respiratory Care, International Congress, “The Airway: Size and Shape Matter”. San Antonio TX, Oct 16, 2016

Haan, L., American Association of Respiratory Care, International Congress, “Sleep and Obesity”. Tampa, FL, Nov 8, 2015

Haan, L., American Association of Respiratory Care, International Congress, “Simulation Best Practices” Tampa, FL, Nov 9, 2015

Haan, L., American Association of Respiratory Care, International Congress, “Simulation: Styles of Debriefing”. Tampa, FL, Nov 9, 2015

National

Haan, L., American Association of Respiratory Care, Summer Forum, “Teaching Mobile Technology”. Marco Island, FL, July 15, 2014

Haan, L., American Association of Respiratory Care, Summer Forum, “Activating Our Lectures to Awaken the Learner”. Marco Island, FL, July 15, 2014

Haan, L., American Association of Respiratory Care, Summer Forum, “Moving

from Sage-on-the-Stage to Guide-on-the-Side: Active Teaching and Learning Strategies for Lecture, Lab and Clinical Setting”. Orlando, FL, July 16, 2013
Haan, L., American Association of Respiratory Care, Summer Forum, “OMG! Students Arrive with Textbooks, Stethoscopes and Smart Phones – Helping Them Use Mobile Technology for More than Just Texting”. Orlando, FL, July 16, 2013

State/Regional/Local

Haan, L., Idaho Sleep Professionals Association, Annual Meeting, “Sleep and Obesity”. Sun Valley, ID Oct 4, 2015

Haan, L., Idaho Society for Respiratory Care, “Understanding and Improving Patient Education”. Boise, ID April, 2014

Macy, R., **Haan, L.**, Kendrick, L., National League for Nursing/Boise State University 2nd Simulation Conference, “Evolution of IPE Sims in an Interprofessional Patient Skills Course”, Boise, ID April 26, 2014

Haan, L., BSU Summer Mobile Learning Institute, “Understanding and using POLL EVERYWHERE in the classroom” and Panel member discussion on real experiences using mobile learning in the classroom”. Boise, ID May 2013

Haan, L., BSU Summer Mobile Learning Institute, “How to Flip the classroom” and Panel member discussion on real experiences using flipped classroom”. Boise, ID May 2013

Haan, L., Idaho Sleep Disorders Association: Annual Idaho St. Luke’s Sleep Disorders Center, Presentation , “Improving Patient Education” Boise, ID March 2012

Haan, L., Idaho Sleep Disorders Association: Annual Idaho Sleep Disorders Meeting titled, “Changes from the BRPT” Boise, ID October 2011

Haan, L., Idaho Sleep Disorders Association: Annual Idaho Sleep Disorders Meeting titled, “Sleep Education Possibilities” Coeur d’Alene, ID October 2008

RESEARCH

RESEARCH POSTER PRESENTATIONS

Haan, L., Nystrom, M., Gilbert, J., American Association of Respiratory Care, “Evaluation of Learning Styles for Patients with COPD”, Las Vegas, NV December 11, 2014

Reischl, U., **Haan, L.**, Ashworth, L., 4th International Conference on Applied Human Factors and Ergonomics, “Self Inflating Mask Interface for Non-Invasive Positive Pressure Ventilation”. Co-authored with Lonny Ashworth and Uwe Reischl. July 2012

Haan, L., Boise State Engineering, College of Engineering, Health aculty facilitator with 2 teams of Senior Design Engineering Students presenting, “Redesign of Crash Cart”, May 2012

Haan, L., American Association of Respiratory Care, “Evaluation C Flex and EPR on CPAP machines.” November 2007

Haan, L., Barnett, T., American Association of Respiratory Care, “Evaluation of Oxygen Bleed-in Location when using an Electronic Breathing Simulator” and “Evaluation of Patient Work-of-Breathing on an electronic Simulator and

the Viasys Avea using Esophageal Pressure Monitoring” November 2006
Haan, L., American Academy of Sleep Medicine: Oral presentation,
“Evaluation of Pressure Adjustments with Three Auto-Titration CPAP
Machines” Salt Lake City June 2006

PUBLICATIONS

Peer Reviewed

Hofmann, G., **Haan, L.** Anderson, J., Esophageal Pressures Measurements in Patients with Acute Lung Injury

Critical Care Nurse

Accepted for Publication Sept 2015, Date to be determined

Haan, L., Macy, R., Kendrick, L., Evolution of Interprofessional Skills Course with Incorporation of Simulation Scenarios

Health and Interprofessional Practice

Accepted for Publication Sept 2015, Date of publication to be determined

Wing, T.J., **Haan, L.**, Ashworth, L., Anderson, J., Limiting Volume with Modern Ventilators. *Therapeutic Advances in Respiratory Disease* 2015; (6):75-83.

Wing, T.J., Koster, M., **Haan, L.**, Formative Assessment in Health Care Education. *International Journal of Education and Social Science* 2014;1 (10)32-37

Non-Peer Reviewed-high impact/visibility Publications

Haan, L., Wing, T.J., Sleep Medication and Lung Disease *AARC Times*; 2015, 4: 24-26

Haan, L., Relationship Between Sleep and Obesity *AARC Times* 2015; 1: 10-11

Invited Contribution to Publication

Bunch, D., Your Patient is in the Waiting Room1. *AARC Times* 2011; 9: 58-59

Articles Submitted/revision

Haan, L., Personalizing Patient Education

Submitted AARC times

September 15, 2014

Under Revision

Davis, S., Macy, R., Deckys, C., **Haan, L.**, Retention of CPR knowledge over time and the influence of cognitive refreshers on CPR skill decay: A nurse and respiratory care student group examined.

Nurse Education Today

Under Revision

Book Chapter

Reischl, U., Ashworth, L., **Haan, L.**, Advances in Affective and Pleasurable Design. “Self Inflating Mask Interface for Non-Invasive Positive Pressure Ventilation”. ISBN 9781439871188. In-press (peer reviewed)

Patient Pending (pulled)

Reischl, U., Ashworth, L., **Haan, L.**, "Flow-Inflating Face Mask Interface for Noninvasive Positive Pressure Ventilation" (BSU File #86) (Our Ref # 083956.0019) [IWOV-DM_US.FID3015590]

GRANTS

2013

Idaho State University, \$5,000 Funded

Davis, S., Macy, R., **Haan, L.**, and Deckys, C., "Investigating the Influence of Repetitive, Space-Time Cognitive and Psychomotor Boosters on the Quality of Cardiopulmonary Resuscitation Outcomes"

Laerdol, \$15,000, In kind equipment use

Davis, S., Macy, R., **Haan, L.**, and Deckys, C., "Investigating the Influence of Repetitive, Space-Time Cognitive and Psychomotor Boosters on the Quality of Cardiopulmonary Resuscitation Outcomes"

2012

College of Health Science, \$5,000, Funded

Davis, S., Macy, R., **Haan, L.**, and Deckys, C., "Investigating the Effect of Time on Memory Loss and the Impact of Different Instructional Methods on Cognitive Knowledge of CPR Skill in a Sample of Nursing and Respiratory Care Students."

Boise State University mLearning Scholar Grant, \$12,000 Funded

Haan, L., ipad flipped classroom

2011

Boise State University mLearning Scholar Grant, \$12,000 Funded

Haan, L., ipad collaboration in teams

2010

Boise State University mLearning Scholar Grant, \$3,300 Funded

Haan, L., Modern Medical Reference

2009

Office of External Funding Boise State University, College of Health Sciences Grant, \$5,000 Funded

Haan, L., "Evaluation of the Prevalence of Obstructive Sleep Apnea in the College Age Football Players"

2008

Macy, R., **Haan, L.**, Kendrick, L., State Board of Education, Technology Incentive Grant, \$170,000 Funded. Collaborative Approach to High Fidelity Simulator Simulations, Department of Nursing, Radiologic Science, & Respiratory Care

2007

Macy, R., **Haan, L.**, Kendrick, L., State Board of Education, Technology Incentive Grant, \$230,000 Funded. From the Manikin to the Patient: Simulation to Reality State Board of Education, Idaho Incentive Grant, Department of Nursing, Radiologic Science, & Respiratory Care

MEMBERSHIP

American Association for Respiratory Care

SERVICE

INSTITUTIONAL SERVICE

2016

Chair 7 Program Directory, Department of Respiratory Care
Member, Department of Respiratory Care Advisory Board Member
Faculty Advisor, ASBSU Respiratory Care Student Organization
Member, College of Health Science Curriculum Committee
Member, College of Health Science Governance Committee
Member, College of Health Science Simulation Team

2015

Member, Department of Respiratory Care Advisory Board Member
Faculty Advisor, ASBSU Respiratory Care Student Organization
Member, College of Health Science Curriculum Committee
Member, College of Health Science Governance Committee
Member, College of Health Science Simulation Team

2014

Faculty in Residence, Living Learning Community Health Professions
Residential College
Boise State University, UF300 Development Core
Member, Department of Respiratory Care Advisory Board Member
Faculty Advisor, ASBSU Respiratory Care Student Organization
Member, College of Health Science Governance Committee

2013

Faculty in Residence, Living Learning Community Health Professions
Residential College
Boise State University, UF300 Development Core
Member, Department of Respiratory Care Advisory Board Member
Faculty Advisor, ASBSU Respiratory Care Student Organization
Member, College of Health Science Governance Committee

2012

Faculty in Residence, Living Learning Community Health Professions
Residential College
mLearning Scholar, Academic Technology, Boise State University
Boise State University, UF300 Development Core
Member, College of Health Science Research Committee
Member, Department of Respiratory Care Advisory Board Member
Faculty Advisor, ASBSU Respiratory Care Student Organization
Faculty Advisor, Senior Design Engineering students, crash cart
Member, College of Health Science Governance Committee

2011

mLearning Scholar, Academic Technology, Boise State University
Boise State University, UF300 Development Core
Member, College of Health Science Research Committee
Member, Department of Respiratory Care Advisory Board Member
Faculty Advisor, Senior Design Engineering students, crash cart

2010

Chair, College of Health Sciences Student Computer Use
Committee Member, College of Health Sciences Activities Committee Member,
Department of Respiratory Care Advisory Board Member, Department of
Respiratory Care, Multiple Committees
Advising

PROFESSIONAL SERVICE

2016

Idaho Sleep Disorders Association: Board Member
Boise Schools Presentation, “Respiratory devices for CNA.”
Boise State University, Summer Advising

2015

Idaho Sleep Disorders Association: Board Member
Boise Schools Presentation, “Respiratory devices for CNA.”
Boise State University, Summer Advising

2014

Idaho Sleep Disorders Association: Board Member
Polysomnographic Education Committee: Annual update
St Luke’s Respiratory Therapy Staff Presentation 2/19/15-2/19/2015,
“Personalizing Patient Education”
Boise Schools Presentation, “Respiratory devices for CNA.”
Boise State University, Summer Advising

2013

Idaho Sleep Disorders Association: Board Member
Polysomnographic Education Committee: Annual update
Boise State University, Summer Advising

2012

Idaho Sleep Disorders Association: Board Member Speaker at Annual Idaho St.
Luke’s Sleep Disorders Center, Presentation, “Improving Patient Education”
Polysomnographic Education Committee: Annual update
Boise State University, Summer Advising

2011

Idaho Sleep Disorders Association: Board Member Speaker at Annual Idaho
Sleep Disorders Meeting titled, “Changes from the BRPT” Idaho
Polysomnographic Education Committee: Annual update
Boise State University, Summer Advising

Idaho Sleep Disorders Association

President (2003 – 2005)

Vice President (2001- 2003)

Participated in drafting legislation to change the existing Respiratory Therapy
Licensure law to permit performance of limited Respiratory practices by sleep
lab staff. Senate Bill 1165 on April 8, 2003.

PUBLIC & COMMUNITY SERVICE

2015

Volunteer, International Rescue Committee

Volunteer, Adams Elementary School

2014

Volunteer, Adams Elementary, Boise Idaho

Volunteer, Red Cross, Boise Idaho

Race Volunteer, TriIdaho

Race Volunteer, Beat Peat

2013

Volunteer, Adams Elementary, Boise Idaho

Volunteer, Red Cross, Boise Idaho

Race Volunteer, TriIdaho

2012

Volunteer, Adams Elementary, Boise Idaho

Volunteer, Red Cross, Boise Idaho

2011

Volunteer, Adams Elementary, Boise Idaho

Volunteer, Sustainable Futures, Boise Idaho