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EDUCATION

- 2013-Present Lucile Packard Children's Hospital at Stanford, Palo Alto, CA
Department of Pediatrics, Stanford University
- Neonatology Fellowship
 - Center for Advanced Pediatric and Perinatal Education (CAPE)
 - Simulation Center Research Fellow
- 2010-2013 Lucile Packard Children's Hospital at Stanford, Palo Alto, CA
Department of Pediatrics, Stanford University
- Pediatrics Residency
 - Board Certified – October 2013
- 2006-2010 State University of New York at Buffalo
School of Medicine and Biomedical Sciences, Buffalo, NY
- Doctor of Medicine, May 2010
- 1999-2003 Brown University, Providence, RI
- Bachelor of Science, Neuroscience, May 2003

RESEARCH EXPERIENCE

- 2013-Present Research Fellow, Center for Advanced Pediatric & Perinatal Education (CAPE) at Stanford. Palo Alto, CA. Mentor: Louis P. Halamek, MD
- 2003–2005 Senior Research Support Specialist, SUNY at Buffalo School of Medicine and Biomedical Sciences. Department of Pediatrics. Division of Behavioral Medicine. Buffalo, NY. Mentor: Leonard Epstein, PhD
- 2002–2005 Clinical Research Assistant, Brown University. Department of Emergency Medicine. Providence, RI. Mentor: Roland Clayton Merchant, MD, MPH

RESEARCH FUNDING AND AWARDS

1. Patient Safety Learning Laboratories: Innovative Design and Development to Improve Healthcare Delivery Systems (P30), Agency for Healthcare Research and Quality. Optimizing safety of mother and neonate in a mixed methods learning laboratory (Role: Co-Investigator) 09/01/14-08/31/18.
2. Child Health Research Institute MD Trainee Grant, Stanford University School of Medicine. Improving diagnostic accuracy & efficiency by optimization of bedside data display: A human factors approach. Stanford CTSA Grant #UL1TR001085. (Role: Principal Investigator) 07/01/14-06/30/16.
3. Tashia and John Morgridge Endowed Postdoctoral Fellowship. Improving diagnostic accuracy & efficiency by optimization of bedside data display: A human factors approach. (Role: Principal Investigator) 07/01/14-06/30/16.

PUBLICATIONS

1. Yamada NK, **Fuerch JH**, Halamek LP. Impact of Standardized Communication Techniques on Errors During Simulated Neonatal Resuscitation. *American Journal of Perinatology*. 2015 (In Press).
2. **Fuerch JH**, Yamada NK, Kobayashi D, Hartman G, Blumenfeld Y, Hintz SR, Chock VY. The Role of a Fetal Center in Preparing for a Conjoined Twin Delivery. *NeoReviews*. 2015 (In Press).
3. Yamada NK, **Fuerch JH**, Halamek LP. Modification of the Neonatal Resuscitation Program Algorithm for Resuscitation of Conjoined Twins. *American Journal of Perinatology*. 2015 (In Press).
4. **Fuerch JH**, Yamada NK, Coehlo PR, Halamek LP. Impact of a Novel Decision Support Tool on Adherence to Neonatal Resuscitation Program Algorithm. *Resuscitation*. 2015 Mar;88:52-6. PMID: 25555358.
5. Yamada NK, **Fuerch JH**, Halamek LP. Simulation in Paediatrics. *Manual of Simulation in Healthcare*. Riley R (Ed.) Cambridge, UK: Oxford University Press (2nd Edition), 2014. (In Press).
6. Kumar P, Yamada NK, **Fuerch JH**, Halamek LP. The Neonatal Resuscitation Program: Current Recommendations and a Look to the Future. *Indian Journal of Pediatrics* 2014;81(5): 473-80. PMID: 24652267.
7. Canders CP, Merchant RC, Pleet K, **Fuerch JH**. Internet-Initiated Sexual Assault Among US Adolescents Reported in Newspapers, 1996-2007. *Journal of Child Sexual Abuse*. 2013; 22(8): 987-99. PMID: 24283547
8. Epstein LH, Roemmich, JN, Robinson JL, Paluch RA, Winiewicz DD, **Fuerch JH**, Robinson TN. A Randomized Trial of the Effects of Reducing Television Viewing and Computer Use on

Body Mass Index in Young Children. *Archives of Pediatric Adolescent Medicine*. 2008 Mar; 162(3): 239-45. PMID: 18316661.

9. Robinson JL, **Fuerch JH**, Winiewicz DD, Salvy SJ, Roemmich JN, Epstein LH. Cost Effectiveness of Recruitment Methods in an Obesity Prevention Trial for Young Children. *Preventive Medicine*. 2007 Jun; 44(6): 499-593. PMID: 17475318.
10. Robinson JL, Winiewicz DD, **Fuerch JH**, Roemmich JN, Epstein LH. Relationship Between Parental Estimate and an Objective Measure of Child Television Watching. *International Journal of Behavioral Nutrition and Physical Activity*. 2006 Nov; 27; 3:43. PMID: 17129381.
11. Merchant RC, **Fuerch JH**, Becker BM, Mayer KH. Comparison of the Epidemiology of Human Bites Evaluated at Three US Emergency Departments. *Pediatric Emergency Care*. 2005 Dec; 21(12): 833-38. PMID: 16340759.
12. Merchant RC, Becker BM, Mayer KH, **Fuerch JH**, Schreck BC. Emergency Department Blood or Body Fluid Exposure Evaluations and HIV Postexposure Prophylaxis Usage. *Academic Emergency Medicine*. 2003 Dec; 10(12): 1345-53. PMID: 14644787.

ORAL RESEARCH PRESENTATIONS

1. **Fuerch JH**, Yamada NK, Prasad P, Halamek LP. "Improving diagnostic accuracy & efficiency by optimization of bedside data display." 2015 International Pediatric Simulation Society Workshops and Symposium; Vancouver, Canada. May 2015.
2. **Fuerch JH**, Yamada NK, Coelho PR, Lee HC, Halamek LP. "Impact of a novel decision support tool on adherence to the Neonatal Resuscitation Program Algorithm." 2015 International Pediatric Simulation Society Workshops and Symposium; Vancouver, Canada. May 2015.
3. **Fuerch JH**, Yamada NK, Prasad P, Halamek LP. "Improving diagnostic accuracy & efficiency by optimization of bedside data display." 2015 Human Factors and Ergonomics Society; Baltimore, MD. April 2015.
4. Yamada NK, **Fuerch JH**, Halamek LP. "Impact of standardized communication techniques on errors during simulated neonatal resuscitation." 2015 Human Factors and Ergonomics Society; Baltimore, MD. April 2015.
5. **Fuerch JH**, Yamada NK, Prasad P, Halamek LP. "Improving diagnostic accuracy & efficiency by optimization of bedside data display." 2015 Western Regional Meeting; Carmel, CA. January 2015.
6. Yamada NK, **Fuerch JH**, Halamek LP. "Impact of standardized communication techniques on errors during simulated neonatal resuscitation." 2015 Western Regional Meeting; Carmel, CA. January 2015.

7. Halamek L, **Fuerch J**, Yamada N. “A clinician’s approach to human factors issues in healthcare at the Center for Advanced Pediatric and Perinatal Education at Stanford.” Human Factors and Ergonomics Society International Webinar. October 2014.
8. Yamada N, **Fuerch J**, Halamek L. “Impact of standardized communication techniques on errors during simulated neonatal resuscitation.” Pediatric Critical Care Fellows Conference, Stanford University: Palo Alto, CA. October 2014.
9. Yamada N, **Fuerch J**, Halamek L. “Impact of standardized communication techniques on errors during simulated neonatal resuscitation.” Neonatal Resuscitation Program Current Issues Seminar, American Academy of Pediatrics: San Diego, CA. October 2014
10. **Fuerch JH**, Yamada NK, Coelho PR, Lee HC, Halamek LP. “Impact of a novel decision support tool on adherence to the Neonatal Resuscitation Program Algorithm.” Western Regional Meeting; Carmel, CA. January 2014.

WORKSHOPS

1. Halamek L, **Fuerch J**, Yamada N, Arafeh J, Oliver A. Neonatology 2015: Patient Care, Quality Improvement, Safety and the Law Conference. Contemporary Forums. San Francisco, CA. March 2015.
2. Arafeh J, Halamek L, **Fuerch J**, Yamada N. “Differences between debriefing simulated and real clinical events.” 15th International Meeting on Simulation in Healthcare; New Orleans, LA. January 12, 2015.
3. Arafeh J, Halamek L, **Fuerch J**, Yamada N. “Debriefing: Focus on the provider or the patient?” 15th International Meeting on Simulation in Healthcare; New Orleans, LA. January 12, 2015.
4. Halamek L, **Fuerch J**, Yamada N, Chitkara R. “Using simulation as a research methodology to study clinically relevant questions: Examples from the Center for Advanced Pediatric and Perinatal Education.” 14th Annual International Meeting on Simulation in Healthcare; San Francisco, CA. January 2014.

RESEARCH POSTER PRESENTATIONS

1. **Fuerch JH**, Yamada NK, Prasad P, Halamek LP. “Improving diagnostic accuracy & efficiency by optimization of bedside data display.” American Academy of Pediatrics; Washington, D.C. October 2015.
2. Yamada NK, **Fuerch JH**, Halamek LP. “Impact of standardized communication techniques on errors during simulated neonatal resuscitation.” 2015 International Pediatric Simulation Society Workshops and Symposium; Vancouver, Canada. May 2015.

3. **Fuerch JH**, Yamada NK, Prasad P, Halamek LP. "Improving diagnostic accuracy & efficiency by optimization of bedside data display." Pediatric Academic Society; San Diego, CA. April 2015.
4. Yamada NK, **Fuerch JH**, Halamek LP. "Impact of standardized communication techniques on errors during simulated neonatal resuscitation." Pediatric Academic Society; San Diego, CA. April 2015.
5. **Fuerch JH**, Yamada NK, Prasad P, Halamek LP. "Improving diagnostic accuracy & efficiency by optimization of bedside data display." 6th Annual LPCH Annual Pediatrics Retreat; Palo Alto, CA. April 2015.
6. Yamada NK, **Fuerch JH**, Hintz SR, Halamek LP. "Using simulation for patient-specific, pre-delivery planning for resuscitation of omphaloischiopagus conjoined twins." 6th Annual LPCH Annual Pediatrics Retreat; Palo Alto, CA. April 2015.
7. Yamada NK, **Fuerch JH**, Halamek LP. "Impact of standardized communication techniques on errors during simulated neonatal resuscitation." 6th Annual LPCH Annual Pediatrics Retreat; Palo Alto, CA. April 2015.
8. **Fuerch JH**, Yamada NK, Halamek LP. "Improving diagnostic accuracy & efficiency by optimization of bedside data display." 15th International Meeting on Simulation in Healthcare; New Orleans, LA. January 2015.
9. **Fuerch JH**, Yamada NK, Coelho PR, Lee HC, Halamek LP. "Impact of a novel decision support tool on adherence to the Neonatal Resuscitation Program algorithm." 15th International Meeting on Simulation in Healthcare; New Orleans, LA. January 2015.
10. Yamada NK, **Fuerch JH**, Halamek LP. "Impact of standardized communication techniques on errors during simulated neonatal resuscitation." 15th International Meeting on Simulation in Healthcare; New Orleans, LA. January 2015.
11. **Fuerch JH**, Yamada NK, Prasad P, Halamek LP. "Improving diagnostic accuracy and efficiency by optimization of bedside data display: A human factors approach." LPCH Pediatrics Research Retreat; Palo Alto, CA. April 2014.
12. **Fuerch JH**, Yamada NK, Coelho PR, Lee HC, Halamek LP. "Impact of a novel decision support tool on adherence to the Neonatal Resuscitation Program Algorithm." LPCH Pediatrics Research Retreat; Palo Alto, CA. April 2014.
13. Yamada NK, **Fuerch JH**, Halamek LP. "Impact of standardized communication techniques on errors during simulated neonatal resuscitation." International Meeting on Simulation in Healthcare; San Francisco, CA. January 2014.

14. Yamada NK, **Fuerch JH**, Halamek LP. "Impact of standardized communication techniques on errors during simulated neonatal resuscitation." Western Regional Meeting; Carmel, CA. January 2014.
15. **Fuerch JH**, Goel V, Blankenburg, B. "Medical Education as an Elective Rotation and Scholarly Concentration for Pediatric Residents." Pediatric Academic Society Annual Conference; Washington, DC, May 2013.
16. **Fuerch JH**, Goel V, Blankenburg, B. "Medical Education as an Elective Rotation and Scholarly Concentration for Pediatric Residents." Association of Pediatric Program Directors Annual Conference; Nashville, TN, April 2013.
17. **Fuerch JH**, Winiewicz DD, Epstein LH. "Cost Effectiveness of Recruitment Methods in a Prevention Trial for Young Children." Society of Behavioral Medicine Annual Conference; Boston, April 2005.

TEACHING EXPERIENCE

- 2013-Present NRP Instructor, Center for Advanced Pediatric & Perinatal Education (CAPE); Lucile Packard Children's Hospital at Stanford University; Palo Alto, CA
- 2013-Present NRP Instructor, Medical Student Simulator Course, Anes 306 Neonatal and Pediatric ICU Core Clerkship; Stanford University School of Medicine; Palo Alto, CA
- 2013-Present Simulation Instructor, Center for Advanced Pediatric & Perinatal Education (CAPE); Lucile Packard Children's Hospital at Stanford University; Palo Alto, CA.
- 2012 Pediatric Teaching Senior Resident, Lucile Packard Children's Hospital at Stanford University; Palo Alto, CA.

LEADERSHIP

- 2014-Present Neonatal-Perinatal Fellow Liaison, Emergency Department-NICU Partnership
- 2014-Present Neonatal-Perinatal Fellow Representative, Resident Education Committee
- 2014-Present Neonatal-Perinatal Fellow Representative, LPCH Delivery Room Task Force
- 2013-Present Neonatology Representative, LPCH Code Committee
- 2013-Present Neonatal-Perinatal Fellow Representative, Neonatology Rounding Committee
- 2013-Present Neonatal Resuscitation Program (NRP) Instructor

MENTORING/ADVISING

- 2015-Present Mentor, Sequoia High School Mentorship Program, Redwood City, CA
 - 2011-2015 Mentor, Woodside High School Mentorship Program, Woodside, CA
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PROFESSIONAL AND SOCIETY MEMBERSHIPS (Active)

2013	Human Factors and Ergonomics Society
2013	California Association of Neonatologists
2013	Society for Simulation in Healthcare
2012	Society for Pediatric Research
2008	American Academy of Pediatrics

HONORS

2014	Tashia and John Morgridge Endowed Postdoctoral Fellowship
2013	Stanford Society of Physician Scholars
2011	Mary Duke Biddle Global Health Scholar
2011	Pediatric Clerkship Faculty Teaching Honor Roll
2009	Frederick B. Wilkes Pediatric Award - Skills and Dedication to Pediatric Patients
2009	Gold Humanism Honor Society
2008	AMA NY State Top Medical Student Membership Award
2008	AMA NY State Medical Student Chapter of the Year Award

AREAS of RESEARCH INTEREST AND EXPERTISE

Neonatal Resuscitation
Human performance optimization
Simulation for education, training, and research
Biodesign and product testing
Bedside data display
Prenatal counseling
Medical Education
Redesigning clinical spaces as optimal learning environments
Manuscript reviewer, *Pediatrics* (2013-present)
Manuscript reviewer, *Simulation in Healthcare* (2014-present)
Manuscript reviewer, *Pediatric Critical Care Medicine* (2014-present)
Manuscript reviewer, *Journal of Perinatology* (2015-present)

LICENSURE AND CERTIFICATIONS (Active)

2013	Board Certification in General Pediatrics, American Board of Pediatrics
2013	Neonatal Resuscitation Program (NRP) Instructor
2011	United States Drug Enforcement Administration License
2011	State of California Medical License
2010	Pediatric Advanced Life Support (PALS) Certification
2010	Neonatal Resuscitation Program (NRP) Provider