

SHARA FELD

Seattle, WA 98112 • www.sharafeld.com

Physician and engineer improving systems of care with clinical decision-making informatics

EDUCATION

Anesthesiology and Critical Care Residency, University of Washington 2018 – present

M.D., University of Wisconsin School of Medicine and Public Health. 2014-2018

Ph.D. in Civil and Environmental Engineering, University of Washington 2010-2014

- *Water Resources in an Arid Land: Availability, Improving Access and the Health Context*

B.A. in Earth Science with Honors Thesis, Dartmouth College 2003-2007

PUBLICATIONS

Feld, S.; Fan, F.; Yuan, M.; Wu, Y.; Woo, K.; Alexandridis, R.; Burnside, ES. Utility of genetic testing in addition to mammography for determining risk of breast cancer depends on patient age (accepted, 2018) American Medical Informatics Association (AMIA) Informatics Symposium Proceedings.

Feld, S.; Cobian, A.; Tevis, S.; Kennedy, G.; Craven, M. Modeling the temporal evolution of postoperative complications American Medical Informatics Association (AMIA) Annual Symposium Proceedings.

Feld, S.; Tevis, S.; Cobian, A.; Craven, M.; Kennedy, G. Multiple postoperative complications: making sense of the trajectories, 2016, Surgery.

Levy RL, van Tilburg MA, Langer SL, Romano JM, Walker LS, Mancl LA, Murphy TB, Claar RL, **Feld S**, Christie DL, Abdullah B, DuPen MM, Swanson KS, Baker MD, Stoner SA, Whitehead WE. Effects of a Cognitive Behavioral Therapy Intervention Trial to Improve Disease Outcomes in Children with Inflammatory Bowel Disease, 2016 Inflamm Bowel Dis. 22(9):2134-48.

Feld, S.; Spencer, B.; Bolton, S. Improved fog collection using turf reinforcement mats (2016) Journal of Sustainable Water in the Built Environment.

Feld, S.; Cristea, N.; Lundquist, J. Representing atmospheric moisture content along mountain slopes: Examination using distributed sensors in the Sierra Nevada, California, 2013, Water Resources Research, 49(7), 4424-4441

Wayand, Nic; Hamlet, Alan; Hughes, Mimi; **Feld, Shara**; Lundquist, Jessica Intercomparison of Meteorological Forcing Data from Empirical and Mesoscale Model Sources in the N.F. American River Basin in northern Sierra Nevada using DHSVM, 2013, Journal of Hydrometeorology, 14, 677-699

Feld, S.; Lundquist, J. Brevia: Representing atmospheric moisture content in the Sierra Nevada, California Mountain Views, Fall 2012, Vol.6, No.2, p.47-48.

Geodetic activities during the 2001 Juneau Icefield Research Program Field Season. Compiled by Scott McGee and Dr. Walter Welsch. Student contributions by J. Amadon, E. Boyce, E. Chin, **S. Feld**, C. Smith, H. Wight. JIRP Open File Survey report, Foundation for Glacier and Environmental Research

PRESENTATIONS

Feld, S.; Fan, F.; Yuan, M.; Wu, Y.; Woo, K.; Alexandridis, R.; Burnside, ES. Utility of genetic testing in addition to mammography for determining risk of breast cancer depends on patient age American Medical Informatics Association (AMIA) Informatics Symposium, March 2018, San Francisco, CA.

Feld, S.; Cobian, A.; Tevis, S.; Kennedy, G.; Craven, M. (2016) Modeling the temporal evolution of postoperative complications American Medical Informatics Association (AMIA) Annual Symposium, November 2016, Chicago, IL.

Feld, S.; Tevis, S.; Cobian, A.; Craven, M.; Kennedy, G. Big data in surgery: Modeling how post-surgical complications increase risk for further complications, February 2016, Oral Presentation: Academic Surgical Congress, Jacksonville, FL.

Feld, S.; Tevis, S.; Cobian, A.; Craven, M.; Kennedy, G.. Big data in surgery: Modeling how post-surgical complications increase risk for further complications, November 2015, SMPH Medical Student Research Forum, Madison, WI

Feld, S.; Spencer, B.; Bolton, S.. A landscape architecture course: Designing fog collection systems and integration into the community in Lima, Peru, May 2013, Abstract in 6th Annual Fog Conference, Yokohama, Japan.

Lundquist, J.; Cristea, N.; Wayand, N.; **Feld, S.;** Henn, B.; Lapo, K.; Hinkelman, L.. Data driving us to distraction – where to focus attention for snow and stream simulations in complex terrain, July 2013, Presentation in DAVOS; Meteorological forcing data and distributed modelling of snow, ice and hydrology in mountain watersheds.

Feld, S.; Jones, S.; Harper, D. Sensitivity of Differences in Anemometer Mounting on Shear Estimates In: Poster Sessions – Windpower May 2010, American Wind Energy Association, Washington, D.C.

Babij, N.; Briggs, K.; **Feld, S.** Met Tower Effects on Wind Shear Measurement In: Poster Sessions – Windpower May 2008, American Wind Energy Association, Washington, D.C.

Feld, Shara; Borosund, M.; Dade, W.B.; Renshaw, C. An experimental study of buoyancy-driven penetration of a passive tracer from channel flow and into an underlying porous bed In: Abstracts with Programs - Geological Society of America (GSA), March 2007, Vol. 39, Issue 1, pp.105 Published by: GSA : Boulder, CO.

Borosund, M.; **Feld, S.;** Renshaw, C.; Dade, W.B. An experimental study to determine the rate and depth of pore-water and passive-contaminant exchange between a porous granular bed and overlying channel flow In: Abstracts with Programs - Geological Society of America (GSA), March 2007, Vol. 39, Issue 1, pp.105 Published by: GSA: Boulder, CO.

PRESS

Can ‘big data’ predict postop complications?, February 22, 2016, ACS Surgery News, by Richard Kirkner.
(<http://www.acssurgerynews.com/specialty-focus/general-surgery/single-article-page/can-big-data-predict-postop-complications/fe7a1ad1ae56c98639d3851108908ecb.html>) *About work presented at 2016 Academic Surgical Congress.*

SERVICE

Moderator: New England Journal of Medicine Resident 360. Abstracts, posters, publications: presenting your research.

Reviewer: American Medical Informatics Association

HONORS AND AWARDS

Fellowships and Funding

Dane County Medical Society Grant: MEDIC electronic referrals system	2015
NIH T35 Training Grant in Surgery	2015
National Defense Science and Engineering Graduate Fellowship (NDSEG): full PhD funding	2012-2015
GoHealth Global Health Travel Funding (Peru)	2013
Travel Funding for 6 th Annual Fog Conference (Japan)	2013
Graduate Student Fund for Excellence and Innovation Travel Award	2013
Research Experience for Undergraduates Internship	2006
Women in Science Program, Dartmouth	2003-2004

Honors and Awards

2016 Medical Student Leadership Award	2016
Buckminster Fuller Challenge Finalist	2014
American Society of Landscape Architects (ASLA) Green space and health (Peru)	2014
Social Economic Environmental Design (SEED) Green space and health (Peru)	2014
EDRA45 New Orleans Green space and health (Peru)	2013

Council of Educators in Landscape Architecture (CELA) Water systems (Peru)	2013
Public Interest Design – Global Green space and health (Peru)	2013
Environmental Protection Agency (People’s choice 1st, ASCE 2nd) Water systems (Peru)	2013
NSF Graduate Fellowship Program: Honorable Mention	2011, 2012
Upham Geology Prize for Senior Thesis, Dartmouth	2007

PROFESSIONAL AND RESEARCH EXPERIENCE

Medical Informatics Research, University of Wisconsin, Madison, WA	May – Aug. 2017
<ul style="list-style-type: none"> Modeling post-surgical complications using machine learning methods Eliciting breast cancer risk from genetic/mammography features and age 	
Water Resources, Public Health Research, University of Washington, Seattle, WA	Jul. 2010 – 2014
<ul style="list-style-type: none"> Water resources and public health projects in WA; Peru Teaching: community development, engineering and school workshops 	
DNV Global Energy Concepts, Inc. Seattle, WA	Feb. 2008 – Apr. 2010
<ul style="list-style-type: none"> Wind energy data analyst, client lead and field work 	
Moosilauke Ravine Lodge (crew, manager), Warren, NH	Jun.-Aug. 2004; Jun.-Nov. 2007
<ul style="list-style-type: none"> Mountain lodge operations, cooking, maintenance and training crew 	
Engineering /Earth Science Research, Dartmouth College; Colorado State University	Sep. 2003 – Jun. 2007
<ul style="list-style-type: none"> Contaminant transport and river restoration studies; micro-robot development 	

LEADERSHIP AND VOLUNTEER EXPERIENCE

Medical

MEDIC Quality Improvement and EMR Coordinator, Madison, WI	Jan. 2015 – Apr. 2016
<i>MEDIC: 7 student-run free clinics</i>	
<ul style="list-style-type: none"> <i>Electronic Medical Record development and implementation</i> <i>Created legal advisory board</i> 	

Public Health Integrative Cases Course Design, Madison, WI	Nov. 2014 – Apr. 2016
<i>Medical education case series to examine health from public health/clinical/social perspectives</i>	

Quality Improvement Interest Group, Madison, WI	Sep. 2014 – Sep. 2015
<i>Selected for Telluride Health Care Quality Improvement Workshop</i>	

Neighborcare Health, Seattle, WA	Feb. 2012 – 2014
<i>First clinic volunteer; designed volunteer system for diabetes care management</i>	

Search and Rescue, King County ESAR, Seattle, WA	Sep. 2011 – 2014
<i>Alpine rescue team</i>	

Outdoors

Cascade Orienteering Club, Seattle, WA	Oct. 2008 – Present
<i>Event organization; designing technical race maps; competitor</i>	

Dartmouth Outdoor Club Directorate, Dartmouth College, Hanover, NH	Sep. 2003 – June 2007
<i>President</i> (Mar. – May 2005); <i>Cabin and Trail Chair</i> (Mar. – June 2006)	
<ul style="list-style-type: none"> Outdoor Club President (all outdoor divisions) Cabin and Trail President (hiking and backcountry skiing club) Paid instructor: Rock climbing Captain: Woodsman’s team Proposed and developed: ski waxing workshop 	