Curriculum Vitae

Name: Fei Zhang		
Business Address: 360A Victoria Building, 3500 Victoria Street, Pittsburgh, PA 15261		
Home Address: 1970 Duncan Ave, Allison Park, PA 15101		
Website: https://www.nursing.pitt.edu/person/fei-zhang		
E-Mail Address: zhangfei@pitt.edu		Cell Phone: 786-531-9094
Business Phone: 412-624-3827		Business Fax: 412-383-7293
Education and Training Undergraduate		
1. Bachelor of Ocean Engineering Degree		1997~2001
TianJin University, P. R. China 2. Bachelor of Science in Nurring		2010~2011
2. Bachelor of Science in Nursing University of Miami		2010~2011
Graduate		
1. Master of Science, Applied Marine Physics		2002~2005
University of Miami 2. Ph.D, Applied Marine Physics		2005~2008
University of Miami		2003 2000
3. Master of Science, Nurse Anesthesia		2012~2014
University of Miami Appointments and Positions		
Academic <u>Appointments and Fositions</u>		
1. University of Miami		2009~2010
Post-Doctoral Research Fellow		
2. University of Pittsburgh		07/2019~now
Assistant Professor		
Non-Academic		
1. Jackson Memorial Hospital		2011~2012
Staff Nurse, Surgical Intensive Care Unit		
2. University of Pittsburgh Medical Center (UPMC)		02/2015~now
Certified Registered Nurse Anesthetist		
Membership in Professional and Scientific Societies		
2012- 2017-		

(HIMSS)

Editorial Boards, AANA Journal

2020-

Publications

Refereed Articles * = Data Based

- 1. * Zhang, F, W.M. Drennan, B.H. Haus, H.C. Graber: On the Current-Wave-Wind Interaction in the Shoaling Wave Experiment. *J. Geophys. Res.*, 114,C01018.
- *Högström, U., A. Smedman, E. Sahleé, W. M. Drennan, K. K. Kahma, H. Pettersson, Zhang,F, 2009: The Atmospheric Boundary Layer during Swell: A Field Study and Interpretation of the Turbulent Kinetic Energy Budget for High Wave Ages. J. Atmos. Sci., 66, 2764–2779.
- *Smedman, A., U. Högström, E. Sahleé, W. M. Drennan, K. K. Kahma, H. Pettersson, Zhang,F, 2009: Observational Study of Marine Atmospheric Boundary Layer Characteristics during Swell. J. Atmos. Sci., 66, 2747–2763.
- * Li, D., Mathews, C, & Zhang, F (2018) The characteristics of pressure injury photographs from the electronic health record in clinical settings. Journal of Clinical Nursing, 27(3-4), 819-828. 10.1111/jocn.14124
- * Li, D., Henker, R., & Zhang, F. (2019). Perianesthesia Measurement During Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemotherapy Procedure: A Case Report and Review of the Literature. Journal of PeriAnesthesia Nursing, 34(1), 198-205.
- 6. * Li, D., Huang, S., **Zhang, F.**, Ball, R. D., & Huang, H. (2021). Perianesthesia Care of the Oncologic Patient Undergoing Cytoreductive Surgery with Hyperthermic Intraperitoneal Chemotherapy: A Retrospective Study. *Journal of perianesthesia nursing : official journal of the American Society of PeriAnesthesia Nurses*, *36*(5), 543–552.
- * Li, D., Mathews, C., Zamarripa, C., Zhang, F., & Xiao, Q. (2022). A Pilot Study for Wound Tissue Segmentation by Computerized Image Analysis from Clinical Pressure Injury Photographs. *Journal of wound care*. In press
- 8. ***Zhang, F.,** Huang, S., Li, D., Huang, H., O'Donnell, J. (2022). Anesthesia Management For Cytoreductive Surgery And Hyperthermic Intraperitoneal Chemotherapy Surgery On Short-Term Patient Outcomes. AANA Journal. In press.

Presentation

- 1. **Zhang, F**. (2006). Wave-Current-Wind Interaction during Shoaling Wave Experiment. Oral session presented at Ocean Science conference, American Geophysical Union, Honolulu, Hawaii.
- 2. **Zhang, F**. (2008). On the Current-Wave-Wind Interaction in the Shoaling Wave Experiment. Oral session presented at Ocean Science, American Geophysical Union, Orlando, FL.
- 3. **Zhang, F.,** Li, D., Whitehurst, S., & Mahajan, A. (2022). Implementation of a High-Fidelity Intraoperative Data Acquisition System in Operating Rooms for Anesthesia-Related Research. IARS AUA SOCCA annual meeting 2022

Teaching

NURSAN 3752 - TEAM TRAINING IN PATIENT SAFTEY IN ANESTHESIA NURSAN 3787 - BASIC PRINCIPLES OF ANESTHESIA LAB NURSAN 3806 - TRANSITION TO CLINICAL PRACTICE LAB

Research

Pending Research Support

NIH R01Milos Hauskrecht (PI)2022-2026Title of Grant: Learning alerting models for clinical care from EMR data and human knowledgeRole:CO-PI (15% effort)

NIH R01Dan Li (PI)2022-2027Title of Grant: A Data-Driven Expert System to Achieve Anesthetist-Level IntraoperativeManagement through Deep Reinforcement LearningRole:CO-PI (10% effort)

Ongoing Research Support

NIH NIGMS K08Fei Zhang (PI)4/1/2021 - 3/31/2025Title of Grant: Synthesizing Intraoperative Multivariate Time Series with Conditional GenerativeAdversarial Networks (\$768,761)Mentor: Aman Mahajan, Heng Huang, Jacqueline Dunbar-Jacob , Oscar C. MarroquinTotal Amount of Award: \$768,761, PI with 80% efforts, Funded

NSF-IIS 1838627 Heng Huang (PI) 10/1/2018 - 9/30/2022 SCH: INT: New Machine Learning Framework to Conduct Anesthesia Risk Stratification and Decision Support for Precision Health **Total Amount of Award:** \$1,182,305, CO-PI with 15% efforts, Funded

Completed Research Support

Center for Research and Evaluation Pilot Funding Fei Zhang (PI) 01/01/2020-06/30/2021 University of Pittsburgh Title of Grant: Applying Real-Time Analytics to High-Resolution Peri-Operative Data among Non-Cardiac Thoracic Surgery Patients: Intraoperative Risk Assessment through Deep-Learning Methodology **Total Amount of Award:** \$18,000, PI with 25% efforts, Funded

University Research Council CRDF Dan Li (PI) 07/01/2016-06/30/2018 Title of Grant: Predictive Modeling for Anesthesia Outcomes of Cytoreductive Surgery with Hyperthermic Intraperitoneal Chemotherapy (CHS+HIPEC) from Electronic Health Record via Machine Learning Algorithms

Total Amount of Award: \$20,000, CO-PI with 10% efforts, Funded