

Curriculum Vitae

Name: Dan Li

Business Address: 3500 Victoria Street 426 **E-Mail Address:** dal144@pitt.edu

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Education and Training

Undergraduate

2006-2007 University of Miami, School of Nursing, Miami, USA BSN

Graduate

2008-2013 University of Miami, School of Nursing, Miami, USA Ph.D

Appointments and Positions

Academic

2014-current University of Pittsburgh, School of Nursing Assistant Professor
Pittsburgh, USA & Interim Coordinator

2011-2012 University of Miami, School of Medicine Research Nurse
Miami, U.S.A

Non-Academic

2007-2008 North Shore Medical Center, Miami, U.S.A RN, Staff nurse

2001-2003 XinFei Electric Company, Shenyang, P.R.China Data scientist

Licensure and Certification

2008-current RN665414 PA

Membership in Professional and Scientific Societies

2008- Member, Sigma Theta Tau International Honor Society of Nursing

2015- Member, American Medical Informatics Association

2015- Member, American Nurses Association

2016- Member, Healthcare Information and Management System Society
(HIMSS)

2016- Member, American Nursing Informatics Association

2017- Member, Wound, Ostomy, Continence Nurses Society

2017- Member, Marquis Who's who

Honors

1997-2001 Honors Student Fellowship, Shenyang University, Shenyang, P.R. China

2008-current Sigma Theta Tau International Honor Society

Publications

Refereed Articles * = Data Based

1. * **Li, D.**, & Korniewicz, D. M. (2013). Determination of the effectiveness of electronic health records to document pressure ulcers. *Medsurg Nursing*, 22(1), 17-25.
2. * **Li, D.** (2016). The relationship among pressure ulcer risk factors, incidence and nursing documentation in hospital-acquired pressure ulcer patients in intensive care units. *Journal of Clinical Nursing*, 25(15-16), 2336-2347. doi:10.1111/jocn.13363
3. * **Li, D.**, & Mathews, C. (2017). Automated measurement of pressure injury through image processing. *Journal of Clinical Nursing*, 26(21-22), 3564-3575. 10.1111/jocn.13726
4. * **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
5. * **Li, D.**, Henker, R., & Zhang, F. (2018). Perianesthesia Measurement during Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemotherapy Procedure: A Case Report and Review of the Literature. *Journal of Perianesthesia Nursing : Official Journal of the American Society of PeriAnesthesia Nurses, Journal of perianesthesia nursing : official journal of the American Society of PeriAnesthesia Nurses*, 20 April 2018
- 6.

Published Abstracts

1. Jaffer A, **Li D**, Schwartz P, Kalidindi V. (2012). The Practice and Utility of Daily Complete Blood Counts (Cbcs) on Hospitalized Patients [abstract]. *Journal of Hospital Medicine*, 7 (suppl 2).
2. Jaffer A, **Li D**, Zuleta J, Symes S, Abbas S. (2012). Hospital Medicine Full Circle: Impact of Incorporating Housestaff Into a Productive Nonteaching Hospitalist Group [abstract]. *Journal of Hospital Medicine*, 7 (suppl 2).
3. **Li, D.** (2015). The relationship between nursing documentation in EHR and the incidence of pressure ulcers in the intensive care units (ICUs) [Abstract]. Oral session presented at 25th Annual Summer Institute in Nursing Informatics Conference: Realizing the Benefits: Health Care and Information Technology (SINI 2015), Baltimore, MD.
4. **Li, D.**, & Mathews, C. (2017). Outstanding Research—Podium: The Characteristics of Pressure Injury Photographs from the Electronic Health Record in Clinical Settings. *CIN: Computers, Informatics, Nursing*, 35(9), 443.

Research

Principal Investigator: Dan Li

1. Funding Agency and Grant Number: **American Nurses Foundation**
Title of Grant: Automated Pressure Ulcer Information Retrieval through Image Processing Technologies
Years Inclusive and Percent Effort: 09/01/2015-08/31/2017; 20%
Total Amount of Award: \$8706 (*Direct Costs*)
2. Funding Agency and Grant Number: **University of Pittsburgh Central Research Development Fund (CRDF)**
Title of Grant: Predictive Modeling for Anesthesia Outcomes of Cytoreductive Surgery with Hyperthermic Intraperitoneal Chemotherapy (CRS+HIPEC) from Electronic Health Record via Machine Learning Algorithms
Years Inclusive and Percent Effort: 7/31/2016 – 6/30/2018; 20%
Total Amount of Award: \$16,000 (*Direct Costs*)

3. Funding Agency and Grant Number: **University of Pittsburgh Competitive Medical Research Fund (CMRF)**
Title of Grant: Predictive Modeling of Length of Hospital Stay Following Cytoreductive Surgery with Hyperthermic Intraperitoneal Chemotherapy (CRS+HIPEC) by Artificial Neural Networks and Support Vector Regression
Years Inclusive and Percent Effort: 07/01/2018-06/30/2020; 20%
Total Amount of Award: *not funded*
4. Funding Agency and Grant Number: **The Beckwith Institute's Bench at the Bedside Program**
Title of Grant: Predictive Modeling for Hypotension after Induction of General Anesthesia from Electronic Health Record via Data Mining
Years Inclusive and Percent Effort: 20%
Total Amount of Award: \$75,000 *not funded*
5. Funding Agency and Grant Number: **NIH, NINR R21NR018241-01**
Title of Grant: Computerized Segmentation and Assessment of Pressure Injury from Clinical Wound Photographs
Years Inclusive and Percent Effort: 09/01/2018-08/31/2020; 30%
Total Amount of Award: \$275,000 (*Direct cost*) *not funded.*
6. Funding Agency and Grant Number: **American Nurses Foundation**
Title of Grant: Pressure Injury (PI) Image Evaluation with Computer Vision Technology
Years Inclusive and Percent Effort: 09/01/2018-08/31/2020; 25%
Total Amount of Award: \$29,929 (*Direct Costs*) *Pending*
7. Funding Agency and Grant Number: **National Science Foundation -Smart and Connected Health (SCH)**
Title of Grant: New Machine Learning Framework to Conduct Anesthesia Risk Stratification and Decision Support for Precision Health
Years Inclusive and Percent Effort: 09/01/2019-08/31/2020; 12 %
Total Amount of Award: *CO-PI, Pending*
8. Funding Agency and Grant Number: **NIH, NINR R01NR018419**
Title of Grant: Characterizing Pressure Injury Healing in Older Adults through Innovative Wound Image Analysis
Years Inclusive and Percent Effort: 04/01/2019-03/31/2024; 30%
Total Amount of Award: \$2,132,148 (*Direct cost*) *Pending*

Co- Investigator

Principal Investigator and Institution: Julia Driessen, Graduate School of Public Health at the University of Pittsburgh

Funding Agency and Grant Number: **AHRQ PA-15-339 R01**

Title of Grant: Adoption, Use, and Impact of Telemedicine for Reducing Potentially Avoidable Hospitalizations in Nursing Homes

Years Inclusive and Percent Effort: 12/1/2016 - 11/30/2019, 5%

Total Amount of Award: *not funded*.

Other Scholarly Activities

Manuscript Reviewer

2015-Current	Journal of Wound, Ostomy and Continence Nursing
2017-Current	BMJ Open
2017-Current	IEEE Transactions on Medical Imaging
2017-Current	The Open Nursing Journal
2018-Current	Critical Care Nurse

Consultation

2015	Patent review: Pitt Ref No.: 03652 Technology Title: PUMP - Pressure Ulcer Monitoring Platform
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Unpublished Presentations

International:

Li, D. (2008). *Concept Analysis: Simulation in Nursing Education*. Oral session presented at 20th International Nursing Research Congress Focusing on Evidence-Based Practice, Vancouver, British Columbia, Canada.

National:

1. **Li, D., & Mathews, C.** (2017). Outstanding Research—Podium: The Characteristics of Pressure Injury Photographs from the Electronic Health Record in Clinical Settings. Oral session presented at 25th Annual Summer Institute in Nursing Informatics Conference: *Realizing the Benefits: Health Care and Information Technology* (SINI 2017), MD
2. **Li, D., & Mathews, C.** (2017). *Automated Measurement of Pressure Injury/Ulcer through Image Processing*. Poster session presented at the WOCN Society's 49th Annual Conference, Salt Lake City, UT.
3. **Li, D., & Mathews, C.** (2017). *Pressure Injury Measured from Digital Clinical Photographs Using Image Processing Technology*. Poster session presented at American Nursing Informatics Association 2017 Conference, New Orleans, LA
4. **Li, D.** (2015). *The Relationship between Nursing Documentation in EHR and the Incidence of Pressure Ulcers in the Intensive Care Units (ICUs)*. Oral session presented at 25th Annual Summer Institute in Nursing Informatics Conference: *Realizing the Benefits: Health Care and Information Technology* (SINI 2015), MD
5. Baltimore, Porteous, H., Manjarrez, E., Laboon, A., Gonzalez, A., Cutting, W., Shah, N., Cordova, C., **Li, D., & Meneghini, L.** (2012). *The impact of hospitalists and insulin order sets on glycemic control and clinical outcomes on hospitalized patients at a regional cancer center*. Poster session presented at the Florida Chapter 2012 Associates meeting of American College of Physicians, Orlando, FL.
6. Schwartz, P.H., Kalidindi, V., **Li, D., & Jaffer, A.K.** (2012). *The practice and utility of daily CBCs on hospitalized patients*. Poster session presented at the annual meeting of Society of Hospital Medicine, San Diego, CA.

7. Zuleta, J., Li, D., & Jaffer, A. K. (2012). *Hospital medicine full circle: impact of incorporating housestaff into a productive non-teaching hospitalist group*. Poster session presented at the annual meeting of Society of Hospital Medicine annual, San Diego, CA.

Local:

Li, D., & Korniewicz, D. M. (2010). *Pressure Ulcer Documentation: Comparison between Medical Record (EMR) and Paper-based Record: A Pilot Study*. Oral session presented at 4th Annual South Florida Research Consortium Conference, Miami, FL.

Teaching**Primary Teacher**

Term / Years	Course Number & Title	No. of Students	Level	Didactic or Clinical
Fall 2014	Methods in Technology Evaluation and Usability NURSP 2383	10	Graduate	Didactic
Fall 2014	Nursing Informatics Practicum 1 NURSP 2085	3	Graduate	Clinical
Spring 2015	Information Technology Project NURSP 2070	4	Graduate	Didactic
Spring 2015	Nursing Informatics Practicum 1 NURSP 2085	1	Graduate	Clinical
Spring 2015	Nursing Informatics Practicum 2 NURSP 2086	3	Graduate	Clinical
Summer 2015	Nursing Informatics Theories & Issues NURSP 2082	8	Graduate	Didactic
Summer 2015	Nursing Informatics Practicum 1 NURSP 2085	2	Graduate	Clinical
Spring 2016	Information Technology Project NURSP 2070	6	Graduate	Didactic
Spring 2016	Nursing Informatics Practicum 1 NURSP 2085	2	Graduate	Clinical
Spring 2016	Nursing Informatics Practicum 2 NURSP 2086	2	Graduate	Clinical
Summer 2016	Nursing Informatics Theories & Issues NURSP 2082	3	Graduate	Didactic
Summer 2016	Nursing Informatics Practicum 1 NURSP 2085	3	Graduate	Clinical
Summer 2016	Nursing Informatics Practicum 2 NURSP 2086	3	Graduate	Clinical
Fall 2016	Methods in Technology Evaluation and Usability NURSP 2383	2	Graduate	Didactic
Fall 2016	Nursing Informatics Practicum 2 NURSP 2086	3	Graduate	Clinical
Spring 2017	Information Technology Project NURSP 2070	6	Graduate	Didactic

Spring 2017	Nursing Informatics Practicum 1 NURSP 2085	1	Graduate	Clinical
Spring 2017	Nursing Informatics Practicum 2 NURSP 2086	1	Graduate	Clinical
Summer 2017	Nursing Informatics Theories & Issues NURSP 2082	3	Graduate	Didactic
Summer 2017	Nursing Informatics Practicum 1 NURSP 2085	1	Graduate	Clinical
Summer 2017	Nursing Informatics Practicum 2 NURSP 2086	2	Graduate	Clinical
Fall 2017	Methods in Technology Evaluation and Usability NURSP 2383	4	Graduate	Didactic
Fall 2017	Nursing Informatics Practicum 1 NURSP 2085	1	Graduate	Clinical
Spring 2018	Information Technology Project NURSP 2070	4	Graduate	Didactic
Spring 2018	Nursing Informatics Practicum 1 NURSP 2085	1	Graduate	Clinical
Summer 2018	Nursing Informatics Theories & Issues NURSP 2082	4	Graduate	Didactic
Summer 2018	Nursing informatics	43	2 nd degree	Didactic
Summer 2018	Nursing Informatics Practicum 1 NURSP 2085	1	Graduate	Clinical

Lecturer / Guest Lecturer

Term/ Years	Course Number & Title	No. of Students	Level	Topic of Lecture
Spring/ 2015	NUR1079	6	UNDER GRADUATE	Introduction of nursing informatics program
Spring/ 2016	NUR1079	4	UNDER GRADUATE	Introduction of nursing informatics program
Fall 2016	NUR 0001	132	UNDER GRADUATE	Introduction of nursing informatics program
Spring 2018	NUR 0086	139	UNDER GRADUATE	Automated Pressure Injury Assessment via Image Processing Technology
Spring 2018	NUR 0086	19	2 ND degree	Automated Pressure Injury Assessment via Image Processing Technology

Other Mentoring Activities

1. Informatics Practicum

- Ryan, Malgorzata Anna, practicum mentor, 2014 fall, project title: Implementation of Cerner's eQuality Check in Concurrent Collection of Clinical Core Measure Data
- Ryan, Malgorzata Anna, practicum mentor, 2015 spring, project title: The Human Factors Evaluation and Comparison of Three Different Models of External Defibrillators: Medication education and patient safety (MEPS) (research proposal)

- Steven Wetherill, practicum mentor, 2014 fall, project title: CareCompass: overview and Survey Results
- Steven Wetherill, practicum mentor, 2015 spring, project title: Transition of Care
- Colleen Tipping, practicum mentor, 2014 fall, project title: Design and implementation of a standardized maternal and newborn product for electronic medical record documentation: Cerner Powerchart maternity's gestation at Magee-Women's Hospital at UPMC
- Danielle Siarri, practicum mentor, 2015 summer, project title: UA testing for gaps in care
- Danielle Siarri, practicum mentor, 2016 spring, project title: Precertification Spinal Surgery Project
- Ran Sun, practicum mentor, 2016 summer, project title: Is there an association between patient mobility level and discharge location?
- Warren Ward, practicum mentor, 2016 spring, project title: Cerner Bridge Transfusion
- Sheri Walker, practicum mentor, 2016 fall, project title: Reducing Errors in Lab Specimen Labeling: A Workflow Assessment of Workarounds
- Nickolai Stefko, 2016 fall, project title: Design considerations of Infusion Interoperability: Streamlining EHR and Infusion Pump Functionality
- Dengler, Clarissa, spring 2017, project title: The Importance of Dosing Weights in Infusion Interoperability
- Taya Irizarry, 2017 spring, project title: Documenting Medications by History-Process Review & Improvement of Educational Materials in UPMC
- Dengler, Clarissa, 2017 summer, project title: UPMC eRecord training evaluation
- Wu, Linden, 2017 summer, project title: WPIC information system training

2. Undergraduate Mentorship

- Jasmine Brown and Zijing Chen (URMP), undergraduate research mentorship, 2015 fall-Current, Automated Pressure Ulcer Information Retrieval Through Image Processing Technologies
- Alyssa Miranda (URMP), undergraduate research mentorship, 2016 fall-Current, Predictive Modeling for Anesthesia Outcomes of Cytoreductive Surgery with Hyperthermic Intraperitoneal Chemotherapy (CRS+HIPEC) from Electronic Health Record via Machine Learning Algorithms

Service

University Committees

06/2015—03/2016 Education & Curriculum Committee member

Purpose: to develop a new academic unit at University of Pittsburgh focusing on computing and information.

School Committees

08/2014—08/2015 BSN council member

08/2014—current MSN council member

08/2014—current Department meeting member

08/2014—current School-wide curriculum committee member

08/2014—current Total faculty meeting member

Other Professional Activities

Date: January 2018

08/2014—current UPMC System Informatics Council member

Purpose: to discuss the current technology used in the UPMC system

03/2017—current WOCN lead contact professional practice meeting member

Purpose: to discuss and optimize the current wound care practice in the UPMC system