

## ***CURRICULUM VITAE***

### **PERSONAL DATA**

Name: Pei Hung Liao, RN, NP, PhD.  
 Current Position: Associate Professor  
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### **EDUCATION**

<b>Duration</b>	<b>Institution &amp; Location</b>	<b>Degree</b>	<b>Major Subject</b>
2007-2013	National Yang Ming University, Institute of Biomedical Engineering, Taipei, Taiwan,	Ph.D.	Biomedical Engineering (Medical informatics)
2004-2006	National Taipei University of Nursing and Health Sciences, School of Nursing, Taipei, Taiwan,	MSN	Nursing (Medical-Surgical 、 Nurse Practitioners)
1996-1998	National Taipei University of Nursing and Health Sciences, School of Nursing, Taipei, Taiwan,	BSN	Nursing

### **SPECIALTIES & RESEARCH INTERESTS**

1. Data Science
2. Artificial Intelligence & Machine Learning
3. Nursing Informatics
4. Critical care
5. Health device design and development

## PUBLICATIONS

### Journal

	Article	Author	category
1	<b>Liao, Pei-Hung</b> , William Chu, and Chen-Shie Ho. (2022). "An Analysis of Waiting Time for Emergency Treatment and Optimal Allocation of Nursing Manpower" <i>Healthcare</i> 10, no. 5: 820. <a href="https://doi.org/10.3390/healthcare10050820">https://doi.org/10.3390/healthcare10050820</a>	1	SCI
2	<b>Liao P-H</b> , Kang SJ. (2022) The mindset and realization of precision care provided by the science of ambient-assisted living. <i>Hu Li Za Zhi.</i> ;69(2):19-24. doi: <a href="https://doi.org/10.6224/JN.202204_69(2).04">https://doi.org/10.6224/JN.202204_69(2).04</a> .	1 & Corresponding	TSCI
3	<b>Liao P-H</b> , Tsuei Y-C, Chu W. (2022) Application of Machine Learning in Developing Decision-Making Support Models for Decompressed Vertebroplasty. <i>Healthcare.</i> ; 10(2):214. <a href="https://doi.org/10.3390/healthcare10020214">https://doi.org/10.3390/healthcare10020214</a> 10.3390/healthcare10020214	1	SCI
4	William Chu, Chen-Shie Ho & <b>Pei-Hung Liao</b> (2022) Comparison of different predicting models to assist the diagnosis of spinal lesions, <i>Informatics for Health and Social Care</i> , 47:1, 92-102, DOI: <a href="https://doi.org/10.1080/17538157.2021.1939355">10.1080/17538157.2021.1939355</a>	Corresponding	SCI
5	Yi-Tsao Chen., Yi-Cheng Chiu., Meng-Lan Teng. & <b>Pei-Hung, Liao.*</b> (2022) The effect of Medical Material Management System APP on Nurse Workload and Stress <i>BMC Nurs</i> 21, 243. <a href="https://doi.org/10.1186/s12912-021-00767-0">https://doi.org/10.1186/s12912-021-00767-0</a>	Corresponding	SCI
6	<b>廖珮宏*</b> 、康仕仲(2022) 人工智慧於照護資訊科技應用的倫理議題與挑戰. <i>台灣護理教育學會會訊</i> ；50 期 (2022 / 01 / 01) ， P7 – 9, <a href="http://www.tane.org.tw/newsletter.aspx">http://www.tane.org.tw/newsletter.aspx</a>	1	
7	Pei-Ying, K.O., Chen-Shie, H.O. & <b>Pei-Hung, L.I.A.O.*</b> (2021) The impact of a multilevel interactive nursing quality control and audit application on nursing quality management. <i>BMC Nurs</i> 20, 243 (2021). <a href="https://doi.org/10.1186/s12912-021-00767-0">https://doi.org/10.1186/s12912-021-00767-0</a>	Corresponding	SCI
8	Pei- Li Chien , Hui-Ting Huang, Hei-Jen Jou1, Shih-Ming Chen, Tzuu-Guang Young, Yi-Feng Wang, <b>Pei-Hung Liao*</b> (2021) Application of Artificial Intelligence in the Establishment of an Association Model between Metabolic Syndrome, TCM Constitution, and the Guidance of Medicated Diet Care . <i>Journal of Evidence-Based Complementary and Alternative Medicine</i> . vol. 2021, Article .ID 5530717, 9 pages, 2021. <a href="https://doi.org/10.1155/2021/5530717">https://doi.org/10.1155/2021/5530717</a>	Corresponding	SCI
9	<b>廖珮宏</b> 、吳浩婷、李作英(2021) 輕省科技與數位轉型翻轉長期照護. <i>源遠護理</i> ；15 卷 1 期 (2021 / 03 / 01), P11 – 15, <a href="https://doi.org/10.6530/YYN.202103_15(1).0002">https://doi.org/10.6530/YYN.202103_15(1).0002</a>	1	
10	Tang Yifan, Liu Ying, Gao Chunhong , Song Jing , Wang Rong , Li Zhenyu, Gu Zejuan, <b>Liao Peihung</b> (2020) Somatic Symptom Disorder Clusters of ICU Nurses treating COVID-19 pneumonia patients in Wuhan, China. <i>Journal of Pain and Symptom Management</i> Vol. 60 (1), e48-53 <a href="https://doi.org/10.1016/j.jpainsymman.2020.03.039">https://doi.org/10.1016/j.jpainsymman.2020.03.039</a>	7	SCI
11	Chiou, P-Y.; ,Liao, P.-H.; Liu, C.-Y.; Hsu, Y.-T.(2020) Effects of mobile health on HIV risk reduction for men who have sex with men. <i>AIDS Care - Psychological and Socio-Medical Aspects of AIDS/HIV</i> Vol. 32 (3)., DOI: <a href="https://doi.org/10.1080/09540121.2019.1668531">10.1080/09540121.2019.1668531</a>	2	SCI

12	Chen, Y. J., Tsou, M. T., Hung, C. L., Chang, W. L., & <b>Liao, P. H*</b> . (2018). Predicting Long-Term Mortality with Biomarkers Level for Homecare Patients. <i>Studies in health technology and informatics</i> , 250, 269.	Corresponding	
13	李作英、廖珮宏、洪崇烈、陳盈如(2018) .远程心电图监控之远距照护模式的效果[J].中国护理管理, 18(9):1175-1179.	2	
14	<b>Pei-Hung Liao</b> , Pei-Ti Hsua1, William Chu, and Woei-Chyn Chu (2015) Applying artificial intelligence technology to support decision making in nursing: A case study in Taiwan , <i>Health Informatics Journal Vol. 21(2)</i> 137–148.	1	SCI
15	<b>Pei-Hung Liao</b> , William Chu, and Woei-Chyn Chu (2014) Evaluation of the Mining Techniques in Constructing a Traditional Chinese-Language Nursing Recording System, <i>Journal of Computer Informatics Nursing vol 5</i> No5, 223-231.	1	SCI
16	Pei-Ti Hsua1, <b>Pei-Hung Liao</b> , William Chu, Shiu-Yan Yanga and I-Ju Chena (2014) Exploration and forecasting of behaviours and factors relating to fruit and vegetable intake among seniors in the community. <i>Public Health Nutrition. 30;18(6):1052-9</i> .	2	SCI
17	William Chu, Yu-Chuan Tsuei, <b>Pei-Hung Liao</b> , Woei-Chyn Chu (2012) . Decompressed Percutaneous Vertebroplasty : A Secured Bone cement Delievery Procedure for Vertebral Augemention in Osteoporotic Compression Fracture. <i>Injury-Internetalional Journal of the Care of the Injury.</i> )	3	SCI
18	李思瑩、 <b>廖珮宏*</b> (2011) . 急性胰臟炎合併肋膜積水病患之照護經驗，長庚護理雜誌，22（1），132-141	Corresponding	

## Conference

1. Chen-Shie Ho, **Pei-Hung Liao\*** (2021) Applying Deep Neural Network Scheme to Improve Efficiency and Satisfaction of Nursing Diagnosis. The 2nd International Conference on Modern Medicine and Application (ICMMA2021). Poster, China.
2. Chia-Min Kao, **Pei-Hung Liao\*** (2020) Preliminary Exploration of the Effectiveness of an App Developed for Nursing Audits. 2020 Taiwan International Nursing Conference Endorsed by ICN.E-Poster, Taipei.
3. Chia-Ling Tu, Chi-Feng Liu, **Pei-Hung Liao\*** (2020) Applling the Mining Technology to Establishment the Prediction Model of a TCM-Syndrome. 2020 Taiwan International Nursing Conference Endorsed by ICN. E-Poster, Taipei.
4. Pei Li Chien, Shih-Ming Chen, Hui-Ting Huang , Hei-Jen Jou, **Pei-Hung Liao\*** (2019) Applying Data Mining Technology to Establish a Personalized Disease Risk Prediction Model. 27TH INTERNATIONAL CONFERENCE ON HEALTH PROMOTING HOSPITALS AND HEALTH SERVICES. Oral . WARSAW, POLAND
5. **Pei-Hung Liao**, William Chu (2019) Development and effectiveness of Smart Drug Interaction Nursing Guidance System: A preliminary study. 2019 International Council of Nurses Conference. Poster. Singapore.
6. Ying-Ju Chen ,Meng-Ting Tsou , Chung-Lieh Hung , Wen-Ling Chang , **Pei-Hung Liao** (2018) Predicting Long-term Mortality with Biomarkers level for Homecare Patients. 2018 International Conference on Nursing Informatics • Poster • Mexico.

7. Chen Yi-Chao, Liao Pei-Hung, Lee Ya-Hui, Hsieh Yu-Ling, Chiu, Yi-Cheng, Keng Li-Ta (2018) Proving Nursing Care to Tracheostomy Patients with Shared Decision Making. The International Forum on Quality and Safety in Healthcare. Poster · Netherlands
8. Pei-Hung Liao<sup>\*</sup>, Chen-Shie Ho (2016) The Effectiveness of Applying APP Techniques to Establishment drug interaction with health care reminding system. The 5th International Conference on Biomedical Engineering and Biotechnology (ICBEB 2016). Poster · China.
9. Pei-Hung Liao<sup>\*</sup>, ( 2016 ) The Effectiveness of Using Creative Teaching Method to Enhance Students' Practical Capability of Nursing. 2016 Asian Congress in Nursing Education (2016 ACiNE). Poster · Taipei.
10. Szu-ying Lee 、 Pei-Hung Liao<sup>\*</sup> (2016) Leadership Challenges for Advancing Doctoral Education in Nursing , Investigation of the effectiveness of Article Retrieval and Application course in information search and literature writing for nursing students. 2016 19th East Asian Forum of Nursing Scholars (EAFONS). Poster. Japan. Chiba.
11. Pei-Hung Liao<sup>\*</sup> ( 2015 ) The Effectiveness of Using QR Code Nursing Care Instructions in Relieving Back Pain of Spine Compression Fracture. 2015 International Council of Nurses Conference. Poster. South Korea.