Curriculum Vitae

Personal Information

Name Chao-Yang (Bright) Kuo, Ph.D.

Position Title Assistant Professor

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Education

Duration Institution Degree

Sep. 2017- Jan. 2022 Graduate Institute of Biomedical Ph. D.

Informatics, Taipei Medical University

Sep. 2013- Jun. 2015 Science in Applied Statistics (Statistics Master

and Information Science), Fu-Jen

Catholic University

Licenses & Certifications

SAS Certified Specialist: Machine Learning Using SAS Institute Inc.

SAS Viya 3.5

Level 3 Senior Examination, Statistics Examination Yuan

<u>Patents</u>

- 1 HEALTH DYNAMIC TRACKING AND ASSESSING DEVICE AND SYSTEM FOR DISABLED
- 2 METHOD AND SYSTEM FOR PREDICTING PREGNANCY RATE OF ASSISTED REPRODUCTION TECHNOLOGY USING ARTIFICIAL INTELLIGENCE

Specialties and Research Interests

- 1. Machine Learning
- 2. Artificial Intelligent
- 3. Statistics
- 4. Explanable AI
- 5. Smart Healthcare

Professional Appointment

Duration	Title	Institution
2022/2-	Assistant Professor	National Taipei University of Nursing
present		and Health Sciences
2009/3-	Section Assistant /	Department of Census, Directorate
2018/9	Specialist	General of Budget, Accounting and
		Statistics, Executive Yuan

Publications

- 1. Shwu-Feng Tsay, Cheng-Yu Chang, Sing Shueh Hung, Jui-Yuan Su, Chao-Yang Kuo*, Pei-Fan Mu (2024, May). Pain prediction model based on machine learning and SHAP values for elders with dementia in Taiwan. *International Journal of Medical Informatics*.
- 2. **Chao-Yang Kuo**, Wei-Wen Yang, Emily Chia-Yu Su (2024, Mar). Improving dengue fever predictions in Taiwan based on feature selection and random forests. *BMC Infectious Diseases*.
- 3. Li-Yin Lin, Atina Husnayain, Yi-Tui Chen, **Chao-Yang Kuo*** (2024, Jan). The association between interest of nutritional supplements and COVID-19 pandemic evidence from Google Trends. *BMC Public Health*.
- 4. **Chao-Yang Kuo**, Yu-Tung Chang (2023, Oct). Introduction of spatial analysis approaches for Emergency Medical Services data: Using the Kaggle dataset as an example. *Journal of Paramedicine and Emergency Response*
- 5. Shu-Tai Shen Hsiao, **Chao-Yang Kuo**, Tsan-Hon Liou, Tai-Ton Wang, Yen-Lin Liu, Sung-Hui Tseng (2023, Aug). Developing an International

- Classification of Functioning, Disability and Health Core Set for Pediatric Brain Tumor Survivors in Chinese Clinical Settings. *Cancer Nursing*.
- 6. Yi-Tui Chen, Emily Chia-Yu Su, Fang Ming Hung, Tomoru Hiramatsu, Tzu-Jen Hung, **Chao-Yang Kuo*** (2023 May). Constructing a Learning Curve to Discuss the Medical Treatments and the Effect of Vaccination of COVID-19. *Healthcare*.
- 7. Chen-Chih Chung, Emily Chia-Yu Su, Jia-Hung Chen, Yi-Tui Chen, Chao-Yang Kuo* (2023, Feb). XGBoost-Based Simple Three-Item Model Accurately Predicts Outcomes of Acute Ischemic Stroke. *Diagnostics*.
- 8. Cheng-Wei Wang[†], **Chao-Yang Kuo**[†], Chi-Huang Chen, Yu-Hui Hsieh, Emily Chia-Yu Su (2022, Jun). Predicting Clinical Pregnancy Using Clinical Features and Machine Learning Algorithms in In Vitro Fertilization. *PLoS One*. [†]Equal Contribution
- 9. **Chao-Yang Kuo**, Chia-Wei Liu, Chien-Hung Lai, Jiunn-Horng Kang, Sung-Hui Tseng, Emily Chia-Yu Su (2021, Dec). Prediction of robotic neurorehabilitation functional ambulatory outcome in patients with neurological disorders. *Journal of NeuroEngineering and Rehabilitation*, 18(1), 174.
- 10. **Chao-Yang Kuo**, Cheng-Chun Lee, Yuh-Lin Lee, Shueh-Chun Liou, Jia-Cheng Lee, Emily Chia-Yu Su, Yi-Wei Chen (2021, Feb). Visual light perceptions caused by medical linear accelerator: Findings of machine-learning algorithms in a prospective questionnaire-based case—control study. *PLoS One*, 16(2), e0247597.
- 11. Herdiantri Sufriyana, Atina Husnayain, Ya-Lin Chen, Chao-Yang Kuo, Onkar Singh, Tso-Yang Yeh, Yu-Wei Wu, Emily Chia-Yu Su (2020, Nov). Comparison of Multivariable Logistic Regression and Other Machine Learning Algorithms for Prognostic Prediction Studies in Pregnancy Care: Systematic Review and Meta-Analysis. *JMIR Medical Informatics*, 8(11), e16503.