

履歷

個人資訊

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教育程度

期間	學校	學歷
2017/9-2022/1	臺北醫學大學醫學資訊研究所	博士
2013/9-2015/1	輔仁大學統計資訊學系應用統計研究所	碩士

認證及證照

證書 / 證照	認證單位
AIL 人工智慧素養 / 專業級	GLAD 全球學習與測評發展中心
CSS Generative AI Foundations	Pearson
SAS Certified Specialist: Machine Learning Using SAS Viya 3.5	SAS Institute Inc.
高考三級 統計	考試院

專利

1 失能者健康動態追蹤與評估裝置與系統（新型第 M654975 號）

使用人工智慧預測人工生殖懷孕率的方法和系統（發明字第
2
I730674 號）

專長與研究興趣

1. 機器學習
2. 人工智慧
3. 統計學
4. 醫學資訊
5. 智慧醫療

專業任職

工作期間	職稱	單位
2025/8-現今	副教授	國立臺北護理健康大學
2022/2- 2025/7	助理教授	國立臺北護理健康大學
2009/3- 2018/9	科員 / 專員	行政院主計總處 國勢普查處

發表

1. Tzu-Jen Hung, **Chao-Yang Kuo**, Hung-Da Dai, Yi-Tui Chen & Emily Chia-Yu Su (2025, Oct). Constructing protective mechanism by analysis of vaccine impact based on hybrid model of dynamic DEA and cluster tendency. *BMC Public Health*.
2. Tien-Li Lan, Ko-Han Lin, Yi-Wei Chen, Koji Ono, **Chao-Yang Kuo**, Jinn-Jer Peir, Shih-Ming Hsu (2025, Jul). Clinical Utility of Fluciclovine PET in BNCT for Recurrent High-grade Glioma. *Clinical Nuclear Medicine*.

3. Ping-Chuan Liu, **Chao-Yang Kuo**, Yi-Wei Chen, Chun-Fu Lin, Shih-Chieh Lin, Feng-Chi Chang, Ming-The Chen, Jau-Ching Wu, Yi-Yen Lee, (2025, Jul). Bevacizumab alternating chemotherapy for improving the survival of patients with recurrent high-grade glioma. *Neuro-Oncology Advances*.
4. Cheng-Chun Lee[†], **Chao-Yang Kuo**[†], Shuan-Mien Wang, Jia-Cheng Lee, Li-Wen Lin, Shueh-Chun Liou, Emily Chia-Yu Su, Yi-Wei Chen. (2025, Jun). Does visual phosphenes associate with fraction dose of radiotherapy? *Therapeutic Radiology and Oncology*. [†]Equal Contribution
5. **Chao-Yang Kuo**, Hsi Chang, Emily Chia-Yu Su, Yu-Jui Huang, Min-Lan Tsai Sung-Hui Tseng. (2025, Jan). Effectiveness of Early Intervention and Prediction of Outcomes in Taiwanese Children with Developmental Delay. *Pediatrics & Neonatology*.
6. Ko-Chin Hsu, Hsiao-Kuan Wu, Shih-Yen Weng, Yu-Tung Chang, **Chao-Yang Kuo*** (2025, Feb). Deep Learning-Based Image Recognition for Emergency Vehicle Classification: Evaluation and Validation with Public and Local Datasets. *Journal of Paramedicine and Emergency Response*.
7. Ting-Bin Lin, **Chao-Yang Kuo**, Feng-Chi Chang, Shih-Chieh Lin, Yi-Wei Chen, Muh-Lii Liang, Yi-Yen Lee (2025, Jan). Carboplatin and vinblastine monthly in optic pathway and hypothalamic gliomas: a retrospective analysis in a single institute. *Neuro-Oncology Advances*.
8. **Chao-Yang Kuo**, Emily Chia-Yu Su, Hsu-Ling Yeh, Jiann-Horng Yeh, Hou-Chang Chiu, Chen-Chih Chung (2024, Dec). Predictive modeling and interpretative analysis of risks of instability in patients with Myasthenia Gravis requiring intensive care unit admission. *Heliyon*.
9. 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*.
10. **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*.
11. 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*.
12. **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*
13. 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*.
14. 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*.
15. 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*.
16. 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
17. **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.
18. **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.
19. 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.

計畫

1. 以空間統計及機器學習方法探討臺灣登革熱疫情空間相關性及建立預測模型(第二期及第三期), 國家科學及技術委員會, 執行期間: 2025-2026, 【主持人】
2. 智慧餐飲與精準營養融合 AI 之課群設計與產業思維人才培育計畫, 教育部, 執行期間: 2025-2026, 【協同主持人】

3. 以機器學習結合行動健康應用程式於妥瑞症青少年的生活品質及心理健康之建構與驗證，國家科學及技術委員會，執行期間：2025-2026，【共同主持人】
4. 健康反轉了嗎？以機器學習結合環境顧志耐曲線建構健康促進的政策規劃，執行期間：2025-2026，【協同主持人】
5. 以空間統計及機器學習方法探討臺灣登革熱疫情空間相關性及建立預測模型，國家科學及技術委員會，執行期間：2024-2025，【主持人】
6. 以機器學習建構長照預測系統與效率評估模型，新光醫療財團法人新光吳火獅紀念醫院，執行期間：2023-2024，【協同主持人】
7. 失智症病人疼痛評估與處置之實證應用之成效探討，財團法人中衛發展中心，執行期間：2023，【共同主持人】
8. 111 學年度國立技專校院校務發展特色躍升計畫 (產學營運中心)505 推動跨國合作研究計畫，教育部，執行期間：2022-2023，【共同（協同）主持人】
9. 110 學年度國立技專校院校務發展特色躍升計畫 107EH12-403-007 新進教師及研究員提升研究能量試辦計畫，教育部，執行期間：2022，【共同（協同）主持人】