

## 林嘉澍(CHIA-SHU LIN)

DDS, MSc, DPhil, FHEA

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### 學術領域

我是國際上極少數兼具腦科學(神經造影)與臨床牙醫學兩方面專長的學者之一，於高齡口腔功能，臨床疼痛以及焦慮議題，持續從事研究並發表論文。我目前主持國立陽明交通大學「人腦與口腔功能實驗室」，為國際上使用非侵入神經造影方法(包括結構與功能磁共振造影)探討口腔感覺運動功能，口腔顏面疼痛與焦慮，以及老化相關之神經機制的主要研究單位。

### 學歷

哲學博士(麻醉學領域) (DPhil in Anaesthetics)	英國牛津大學(University of Oxford) 指導教授：Irene Tracey 博士(現任牛津大學校長)，Katja Wiech 博士(現任牛津大學臨床神經科學系研究員)	2007-2011
理學碩士(神經科學領域) (MSc in Neuroscience)	英國倫敦帝國學院(Imperial College London) 指導教授：Paola Piccini 博士(現任倫敦帝國學院神經學教授)	2005-2006
牙醫學士	國立陽明大學	1994-2000

(Doctor of Dental Surgery)

## 學術職務

正教授	國立陽明交通大學牙醫學院牙醫學系	2019 至今
副教授	國立陽明大學牙醫學院牙醫學系	2016-2019
助教授	國立陽明大學牙醫學院牙醫學系	2013-2016
合聘教授	國立陽明交通大學醫學院腦科學研究所	2019 至今

## 領導職務與服務

副系主任	國立陽明交通大學牙醫學院牙醫學系	2023 至今
		2017-2018
中心副主任	國立陽明交通大學口腔醫學研發創新中心	2023 至今
學術委員	亞洲顱顎障礙症學會	2015-2019
監事	中華牙醫學會	
秘書長	台灣顱顎障礙症學會	2017-2019

## 獲獎與榮譽

### 國際榮譽

- 位列美國史丹佛大學 Ioannidis 團隊「世界前 2% 研究影響力科學家」 2024,  
(<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3>). 2021
- 第 15 屆亞洲顱顎障礙症學會最佳海報 2015

### 國內榮譽

- 110 年度教育部教學實踐計畫績優獎 2023

- 牙醫師公會全國聯合會優良教師獎 2023
- 2018
- 臺灣開放式課程暨教育聯盟 (TOCEC)「特優獎」(全國兩名) 2022
- 牙醫師公會全國聯合會年度學術研究優等 2019

#### 校內榮譽

- 國立陽明交通大學 111 學年度傑出教學教師 2023
- 國立陽明交通大學績優教研人員 2023
- 國立陽明交通大學國際化研究成果獎勵「傑出國際專書獎勵」 2023
- 國立陽明交通大學特色課程評選「課程優良獎」 2022
- 國立陽明大學學術卓越獎勵 2017
- 2015
- 國立陽明大學牙醫學院教學優良獎 2016

## 研究資歷

#### 獲經費補助之計畫(擔任主持人)

- 「心手合一」：發展以感覺運動行為/認知測試為基礎的牙醫 國科會 2023-2026  
系學生臨床操作技能學習平台(NSTC 112-2314-B-A49-015-MY3)
- 探討咀嚼功能適應與學習的腦神經機制及老年醫學的轉譯應 科技部 2021-2024  
用(MOST 110-2314-B-A49A-518-MY3)
- 強化牙醫系學生行為科學與人文素養之教學 – 以臨床醫病 教育部 2021-2022  
互動電子遊戲為學習媒介(PMN1100611)
- 台灣民眾之牙科焦慮與恐懼現況調查：從建立測量工具到臨 科技部 2018-2020  
床實務應用 (MOST 107-2314-B-010-030-MY2)
- 開發以腦神經造影為基礎之中高齡者口腔功能與口顏疼痛預 科技部 2016-2020  
防診斷系統 (105-2628-B-010 -008-MY4)

- 以腦神經造影探索影響老人口腔顏面疼痛與咀嚼功能之中樞神經機制 (103-2314-B-010-025-MY3) 科技部 2014-2017
- 認知與情緒因素如何影響老年牙科病患之口腔顏面疼痛經驗以及醫療決策行為 – 腦神經造影研究 嚴慶齡 2015-2016  
醫學基金會
- 功能性磁共振造影探討牙痛與牙痛緩解之腦神經機制 (102-2314-B-010-049) 科技部 2013-2014

#### 受邀演講(國際活動)

- 主辦人 第 102 屆國際牙醫學研究學會 (IADR)年會(美國新奧爾良) - 2024  
與講員 Lunch & Learning 研討會主題 *Design and Interpretation of Neuroimaging of Oral Function and Disease*
- 講員 QS 亞太峰會(QS Asia Pacific Summit)(印尼雅加達|線上) - 研討會 2022  
主題 *New School Education*
- 講員 第 16 屆亞洲抗失智症學會(ASAD)年會(台灣台北) 2022
- 講員 第 20 屆亞洲口腔顏面疼痛與顱顎障礙症學會(AAOT)年會(南韓首爾|線上) 2021
- 主持人 第 99 屆國際牙醫學研究學會 (IADR)年會(美國波士頓|線上) - 研討會主題 *Neuroimaging and Dentistry: Translational Research based on Brain Imaging* 2021
- 主辦人 第 98 屆國際牙醫學研究學會 (IADR)年會(美國華盛頓) - 研討會 2020  
與講員 主題 *Neuroimaging and Dentistry: Translational Research based on Brain Imaging* (本屆實體活動因 COVID-19 疫情取消)
- 講員 第 11 屆亞太太平洋地區老年學及老年醫學研討會(台灣台北) - 2019  
研討會主題 *New horizon of the gerodontology for 2020*
- 講員 美國神經科學年會(SfN)(美國聖地牙哥) - Satellite Symposium 主 2018  
題 *Orofacial Functions: From Neural Mechanisms to Rehabilitation*
- 講員 第 96 屆國際牙醫學研究學會 (IADR)年會(英國倫敦) 2018  
研討會主題 *Mastication and Deglutition of Geriatric Patients: Mechanisms and Practice*

- 講員 第 3 屆日本國立長壽醫療研究中心-國立陽明大學高齡與健康研究中心研討會(日本名古屋) 2017
- 講員 第 27 屆日本老人牙醫學學會(JSG)年會(日本德島) 2016
- 講員 第 15 屆亞洲顱顎障礙症學會(AACMD)年會(南韓大邱) 2015
- 講員 第 92 屆國際牙醫學研究學會 (IADR)年會(南非開普敦) 2014  
研討會主題 *Next Generation Imaging in Dentistry: From Pulp to Cortex*

## 教學資歷

### 課程主持人/主要授課教師

- |   |         |
|---|---------|
| 國立陽明大學/國立陽明交通大學牙醫學系   | 2013 至今 |
| <ul style="list-style-type: none"> <li>● 行為牙醫學</li> <li>● 口腔顏面疼痛與神經科學</li> <li>● 行為研究實驗設計與文獻整合分析</li> <li>● 老年牙醫學(已停開)</li> <li>● 牙科生物醫學概論</li> </ul> |         |
| 國立陽明大學/國立陽明交通大學腦科學研究所   | 2014 至今 |
| <ul style="list-style-type: none"> <li>● 情緒神經科學</li> </ul>  |         |

### 論文指導教授

- |   |   |
|---|---|
| 國立陽明大學/國立陽明交通大學   |   |
| <ul style="list-style-type: none"> <li>● 陳大中(博士班 屢復專科)</li> <li>● 顏伯翰 (牙髓病學組碩士班 楊淑芬醫師共同指導)</li> <li>● 莊凱翔 (屢復學組碩士班)</li> <li>● 吳隆庭 (牙髓病學組碩士班 楊淑芬醫師共同指導)</li> <li>● 趙子佑 (PGY 碩士班)</li> </ul> | 2021 至今<br>2021 至今<br>2017 畢業<br>2015 畢業<br>2015 畢業 |
| 外籍學生短期研究(荷蘭阿姆斯特丹牙醫學術中心 (ACTA)碩士論文，Frank Lobbezoo 博士共同指導)  |   |

- James Lin 2023
- Karlijn Bindels 2020-2022
- Fleur Knijn 2020-2022

大學部導師 2013 至今

## 學術團體與資格

- 英國高等教育學院證書 (Fellow of the Higher Education Academy , FHEA) (<https://www.advance-he.ac.uk/>) 2022
- 臺灣認知神經科學學會會員 2022 至今
- 美國神經科學回會(SfN)會員 2018 至今
- 國際牙醫學研究學會(IADR)會員 2013 至今
- 中華牙醫學會會員 2013 至今
- 台灣顱顎障礙症學會(TACMD)會員 2013 至今
- 中華民國老人牙醫學會會員 2017-2019
- 亞洲顱顎障礙症學會(AACMD)會員 2015-2019

## 學術著作

### 專書

- 林嘉澍 (單一作者) *Dental Neuroimaging: The Role of the Brain in Oral Functions* / Wiley-Blackwell (2021) ISBN: 978-1-119-72423-0 (320 頁)

### 線上課程

- 林嘉澍 (課程主持人與講員) *Brain, Behaviour, and Dentistry* – 本課程為國際上首次為牙科學生與專業人士設計，聚焦人腦與行為科學議題之線上課程。本課程於 2022 年

5 月 23 日於國際線上教學平台 FutureLearn 開放修課(4 周短期課程，課程連結  
<https://www.futurelearn.com/courses/brain-behaviour-and-dentistry>)

## 研究論文

- 至 2024 年共 47 篇論文發表於 JCR 收錄之期刊，韓 13 篇 Q1 與 32 篇 Q2 期刊。其中 38 篇擔任第一或/和通訊作者。H-index=20 (根據 Google Scholar)

\*下表之期刊點數排名數據皆根據 2022 年 JCR 資料

1. **Lin C-S (Corresponding Author)**, Chen Y-C, Chao L-J, Kao W-C, Chen T-C (2024). Age-related Difference in Oral Adaptation to Masticatory Perturbation. *Arch Oral Biol*, Epub (IF=3.0, R/C=37/91 (Q2) in DENTISTRY, ORAL SURGERY & MEDICINE).
2. **Lin C-S (Corresponding Author)**, Chen T-C, Verhoeff MC, Lobbezoo F, Trulsson M, Fuh J-L (2024). An umbrella review on the association between factors of oral health and cognitive dysfunction. *Ageing Research Reviews*, 93:102128 (IF=13.1, R/C=1/54 (Q1) in GERIATRICS & GERONTOLOGY).
3. Chan Y-T, **Lin C-S (Corresponding Author)** (2023). Structural Brain Feature is Associated with Changes of Masticatory Performance in Healthy Elderly People: Evidence from Longitudinal Neuroimaging Research over Two Years. *Journal of Oral Rehabilitation*, 51:526 (IF=2.9, R/C=40/91 (Q2) in DENTISTRY, ORAL SURGERY & MEDICINE).
4. Chen T-C, **Lin C-S (Corresponding Author)** (2023). Neuroimaging Meta-analysis of Brain Mechanisms of the Association between Orofacial Pain and Mastication. *Journal of Oral Rehabilitation*, 50:1070 (IF=2.9, R/C=40/91 (Q2) in DENTISTRY, ORAL SURGERY & MEDICINE).
5. **Lin C-S (Corresponding Author)**, Liu L-K, Chen L-K, Fuh J-L (2023). Association between masseter muscle volume, nutritional status, and cognitive status in older people. *Archives of Gerontology and Geriatrics*, 113: 105038 (IF=4.0, R/C=24/54 (Q2) in GERIATRICS & GERONTOLOGY).
6. **Lin C-S (Corresponding Author)**, Yang C-C (2023). Evaluation of a digital game for teaching behavioral aspects of clinical communication in dentistry. *BMC Med Educ*, 23:78 (IF=3.6, R/C=63/269 (Q1) in EDUCATION & EDUCATIONAL RESEARCH).
7. Parisius KGH, Verhoeff MC, Lobbezoo F, Avivi-Arber L, Duyck J, Hirano H, Iijima K, Janssens B, Kossioni A, **Lin C-S**, McKenna G, Müller F, Schimmel M, Visser A,

- Watanabe Y, Gobbens RJJ (2024). Towards an operational definition of oral frailty: A e-Delphi study. *Archives of Gerontology and Geriatrics*, 117:105181 (IF=4.0, R/C=24/54 (Q2) in GERIATRICS & GERONTOLOGY).
8. Knijn FV, Verhoeff MC, Bindels KL, Fuh JL, **Lin CS**, Su N, Lobbezoo F (2023). Are demographic factors, masticatory performance and structural brain signatures associated with cognitive impairment in older people? A pilot study of cross-sectional neuroimaging data. *Journal of Oral Rehabilitation*, 51:321 (IF=2.9, R/C=40/91 (Q2) in DENTISTRY, ORAL SURGERY & MEDICINE).
  9. Bindels KL, Verhoeff MC, Su N, Knijn FV, Aarab G, Fuh JL, **Lin CS**, Lobbezoo F (2023). Swallowing performance in older adults: Associated cognitive, neuroanatomical and demographic factors. *Journal of Oral Rehabilitation*, 51:296 (IF=2.9, R/C=40/91 (Q2) in DENTISTRY, ORAL SURGERY & MEDICINE).
  10. **Lin CS (Corresponding Author)**, Chang WJ, Fuh JL (2022). Lower masticatory function relates to cognitive health and intrinsic brain network in older adults. *Oral Diseases*, 29:2895 (IF=3.8, R/C=19/91 (Q1) in DENTISTRY, ORAL SURGERY & MEDICINE).
  11. **Lin C-S**, Liu L-K, Lee W-J, Peng L-N, Lin C-P, Lee S-Y, Chen L-K (2022). Low masseter muscle mass is associated with frailty in community-dwelling older adults: I-Lan Longitudinal Aging Study. *Experimental Gerontology*, 163:111777 (IF=3.9, R/C=27/54 (Q2) in GERIATRICS & GERONTOLOGY).
  12. Wu L-T, **Lin C-S (Corresponding Author)**, Yang S-F (2021). Association between pain, anxiety, and pain relief in patients receiving emergent endodontic treatment. *Clin Oral Investig*, 26:275-285 (IF=3.4, R/C=28/91 (Q2) in DENTISTRY, ORAL SURGERY & MEDICINE).
  13. **Lin C-S (Corresponding Author)**, Lee C-Y, Wu S-Y, Chen L-L, Lee K-T, Wang M-C, Wang T-F (2021). Translation and Validation of Modified Dental Anxiety Scale based on Adult Taiwan Population. *BMC Oral Health*, 21:647 (IF=2.9, R/C=40/91 (Q2) in DENTISTRY, ORAL SURGERY & MEDICINE).
  14. **Lin C-S (Corresponding Author)**, Lee C-Y, Chen L-L, Wu L-T, Yang S-F, Wang T-F (2021). Magnification of fear and intention of avoidance in non-experienced vs. experienced dental treatment in adults. *BMC Oral Health*, 21:328 (IF=2.9, R/C=40/91 (Q2) in DENTISTRY, ORAL SURGERY & MEDICINE).
  15. Liu YCG, Lan SJ, Hirano H, Lin, LM, Hori K, **Lin CS**, Zwetchkenbaum S, Minakuchi S, Teng AYT (2020). Update and review of the gerodontology prospective for 2020's:



- Linking the interactions of oral (hypo)-functions to health vs. systemic diseases. *Journal of Dental Sciences*, 16:757 (IF=3.5, R/C=26/91 (Q2) in DENTISTRY, ORAL SURGERY & MEDICINE).
16. Lo KC, Lin HH, **Lin CS (Corresponding Author)** (2020). A novel method for assessing oral mixing ability based on the spatial clusters quantified by variogram. *Journal of Oral Rehabilitation*, 47:951-960 (IF=2.9, R/C=40/91 (Q2) in DENTISTRY, ORAL SURGERY & MEDICINE).
  17. **Lin CS**, Lin HH, Wang SJ, Fuh JL (2020). Association between regional brain volume and masticatory performance differed in cognitively impaired and non-impaired older people. *Experimental Gerontology*, 137:110942 (IF=3.9, R/C=27/54 (Q2) in GERIATRICS & GERONTOLOGY).
  18. **Lin CS**, Lin HH, Fann SW, Lee WJ, Hsu ML, Wang SJ, Fuh JL (2020). Association between tooth loss and gray matter volume in cognitive impairment. *Brain Imaging and Behavior*, 14:396 (IF=3.2, R/C=7/15 (Q2) in NEUROIMAGING).
  19. **Lin CS (Corresponding Author)**, Yeung AWK (2020). What do we learn from brain imaging?-A primer for the dentists who want to know more about the association between the brain and human stomatognathic functions. *Journal of Oral Rehabilitation*, 47:5 (IF=2.9, R/C=40/91 (Q2) in DENTISTRY, ORAL SURGERY & MEDICINE).
  20. **Lin CS (Corresponding Author)** (2020). Functional Adaptation of Oromotor Functions and Aging: A Focused Review of the Evidence From Brain Neuroimaging Research. *Frontiers in Aging Neuroscience*, 11:354 (IF=4.8, R/C=20/54 (Q2) in GERIATRICS & GERONTOLOGY).
  21. **Lin CS (Corresponding Author)**, Wu CY, Wang DH, Lin HH, Lo KC, Lo WL, Liu LK, Fuh JL, Hsu ML (2019). Brain signatures associated with swallowing efficiency in older people. *Experimental Gerontology*, 115:1 (IF=3.9, R/C=27/54 (Q2) in GERIATRICS & GERONTOLOGY).
  22. Lee LC, Chen YH, **Lin CS**, Li WC, Low I, Tu CH, Chou CC, Cheng CC, Yeh TC, Chen LF, Chao HT, Hsieh JC (2018). Unaltered intrinsic functional brain architecture in young women with primary dysmenorrhea. *Scientific Reports*, 8:12971 (IF=4.6, R/C=22/73 (Q2) in MULTIDISCIPLINARY SCIENCES).
  23. **Lin CS (Corresponding Author)** (2018). Meta-analysis of brain mechanisms of chewing and clenching movements. *Journal of Oral Rehabilitation*, 45:627 (IF=2.9, R/C=40/91 (Q2) in DENTISTRY, ORAL SURGERY & MEDICINE).

24. **Lin CS (Corresponding Author)**, Wu CY, Wu SY, Lin HH (2018). Brain activations associated with fearful experience show common and distinct patterns between younger and older adults in the hippocampus and the amygdala. *Scientific Reports*, 6:37816 (IF=4.6, R/C=22/73 (Q2) in MULTIDISCIPLINARY SCIENCES).
25. **Lin CS (Corresponding Author)** (2018). Revisiting the link between cognitive decline and masticatory dysfunction. *BMC Geriatrics*, 18:5 (IF=4.1, R/C=9/37 (Q1) in GERONTOLOGY).
26. **Lin CS (Corresponding Author)**, Wu CY, Wu SY, Chuang KH, Lin HH, Cheng DH, Lo WL (2017). Age-and sex-related differences in masseter size and its role in oral functions. *The Journal of the American Dental Association*, 148:644 (IF=3.9, R/C=18/91 (Q1) in DENTISTRY, ORAL SURGERY & MEDICINE).
27. **Lin CS (Corresponding Author)**, Wu CY, Wu SY, Lin HH, Cheng DH, Lo WL (2017). Age-Related Difference in Functional Brain Connectivity of Mastication. *Frontiers in Aging Neuroscience*, 9:82 (IF=4.8, R/C=20/54 (Q2) in GERIATRICS & GERONTOLOGY).
28. **Lin CS (Corresponding Author)**, Wu SY, CA Yi (2017). Association between Anxiety and Pain in Dental Treatment A Systematic Review and Meta-analysis. *Journal of Dental Research*, 96:153 (IF=7.6, R/C=3/91 (Q1) in DENTISTRY, ORAL SURGERY & MEDICINE).
29. **Lin CS (Corresponding Author)**, Lin HH, Wu SY. Functional and Structural Signatures of the Anterior Insula are associated with Risk-taking Tendency of Analgesic Decision-making (2016). *Scientific Reports*, 6:37816 (IF=4.6, R/C=22/73 (Q2) in MULTIDISCIPLINARY SCIENCES).
30. **Lin CS (Corresponding Author)**, Wu SY, Huang HY, Lai YL (2016). Systematic Review and Meta-Analysis on Incidence of Altered Sensation of Mandibular Implant Surgery. *PLoS ONE*, 11(4):e0154082 (IF=3.7, R/C=26/73 (Q2) in MULTIDISCIPLINARY SCIENCES).
31. **Lin CS (Corresponding Author)**, Wu SY, Wu CY, Ko HW (2016). Grey matter volume and resting-state functional connectivity of the motor cortex-cerebellum network reflect the individual variation in masticatory performance in the healthy elderly people. *Frontiers in Aging Neuroscience*, 7:247 (IF=4.8, R/C=20/54 (Q2) in GERIATRICS & GERONTOLOGY).
32. **Lin CS (Corresponding Author)**, Wu, SY, Wu LY (2015). The anterior insula and anterior cingulate cortex are associated with avoidance of dental treatment based on

- prior experience of treatment in healthy adults. *BMC Neuroscience*, 16:88. (IF=3.29, R/C=165/273 (Q3) in NEUROSCIENCES).
33. **Lin CS (Corresponding Author)**, Wu SY, Wu LT (2015). Preferences for Analgesic Treatments Are Influenced by Probability of the Occurrence of Adverse Effects and the Time to Reach Maximal Therapeutic Effects. *PLoS ONE*, 10: e0130214 (IF=3.7, R/C=26/73 (Q2) in MULTIDISCIPLINARY SCIENCES).
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