國立中央大學生醫理工學院院長候選人推(自)薦表

日期：109 年 3 月 30 日

候選人姓名	中文：阮啟弘	英文：Chi-Hung Juan	
服務單位	認知神經科學研究所	職　　稱	講座教授
推薦方式	□ 遴選委員會委員推薦 □ 院內助理教授以上七人連署推薦 ■ 自薦		

推(自)薦理由：

(1) 科學領域專長

敝人長期以實驗心理學、認知神經科學和腦科學等研究主題為研究範疇，近年同時嘗試將基礎的研究發現逐步應用到臨床診療、高齡認知退化、教育與學習及運動科學等領域中，尋求更多跨領域研究發展的機會。

多年來，我持續在理論性的基礎研究上不斷深化，新近與黃鍔院士團隊共同開發出全新且獨步全球的非線性動態數據分析方法（如 Holo-Hilbert Spectrum Analysis, HHSA），取得多項嶄新突破，也使認知神經科學的研究成果得以更有效地轉譯到臨床診療、運動、教育等領域。由於這樣的發展，我的研究團隊在近幾年於各項研究、合作與應用上的角色亦慢慢擴大，著重從認知神經科學和腦科學研究的學術理論和專業角度，期望為各個研究合作者及其相關應用議題提供具科學證據的建議和觀念釐清，亦期許給予更精準且高效率的資料分析技術支援。

(2)學術地位

綜觀而言，我的實驗室在跨顱磁刺激、跨顱電刺激、腦電波、眼動儀、功能性磁振造影、HHSA 等技術和研究方法的單一使用或整合性應用上，已累積相當豐富的使用經驗，在每一階段的發展上都有些突破並占得先機。這讓我有幸在近 5 年內陸續榮獲 2019 世界科學院社會科學獎（The TWAS Prize in Social Sciences for 2019）、2015 Fellow, Association for Psychological Science、2015 Fellow, Psychonomic Society、104 年度教育部第 59 屆學術獎、105 年度與 102 年度及 99 年度科技部傑出研究獎等肯定。另一方面，我的實驗室長年與英國牛津大學維持緊密合作，在 2018 年與 2019 年二度獲得教育部補助執行「臺灣與英國牛津大學合作發展學術策略聯盟計畫」計畫，主題圍繞在腦電波、腦磁波、非侵入性腦刺激（如跨顱磁刺激與跨顱電刺激）、非線性動態數據分析方法以及人工智慧的整合，並探討如何將研究成果更順利地應用到臨床診療與精準醫學的發展之上。

(3)前瞻理念、領導協調能力、國際觀

另一方面，我持續積極尋求與資訊工程及電機與機械工程領域的學者合作，期望將人工智慧、機器學習、深度學習、腦機介面與腦科學的研究進行整合。我在 2019 年與幾位心理學、腦科學、人工智慧的專家學者合作，由我擔任計畫總主持人並以「認知神經科學與人工智慧的整合」為題，獲得科技部沙克爾頓計畫的支持。此外，我同時獲得 5 年期之科技部學術攻頂研究計畫的補助。並在同一年度，我與臺北榮民總醫院精神部、林口長庚醫院兒童心智科、臺灣大學心理學系、中央大學資訊工程學系等單位的醫師和學者合作，共同得到科技部「台灣腦科技發展及國際躍升計畫」補助，執行「情緒的心智腦科技研究」之整合型計畫。科技部學術攻頂研究計畫、沙克爾頓計畫、台灣腦科技發展及國際躍升計畫，這三者皆為科技部主導且看重的大型頂尖與重點發展研究案。我有幸在單一年度同時

獲得科技部三項重要的跨領域整合型計畫，以及教育部所推動之台灣與英國牛津大學發展學術策略聯盟計畫。由此或可窺見在專長領域內的專業性、前瞻理念、領導力與國際觀等，可能已受到一定程度的肯定。

我過去在 2011 年曾前往英國牛津大學實驗心理學系擔任訪問教授，亦於 2009 年在美國加州大學爾灣分校認知科學系擔任訪問學者（並獲得 2009 Fulbright Scholar, Fulbright Scholar Program, USA-Taiwan 支持），並主持過跨國整合型研究計畫。同時在 2012 年至 2013 年兼任理學院副院長職務。這些經驗可幫助我從學院治理的角度，了解校內的行政、學務和教務方針，以及國際頂尖大學的治學觀。近幾年，生醫科學與工程、腦科學、認知神經科學和人工智慧的研究，不斷地促發跨領域的交流與發展；在這股蓬勃浪潮以及最新 COVID-19 疫情的衝擊下，生醫理工學院的有效經營運作將對中央大學與社會大眾都十分重要。如何讓相關院內與院外專業人才與資源進行有效整合以及橫向連結，更顯得格外關鍵。因此我期許且盼望透過自身的經驗與資源，一齊與生醫理工學院的所有教研同仁和學生共同成長。未來，我將全力鏈結學院與校內外國際頂尖單位的合作，擴大整體研究規模、議題廣度和深度，並規劃集結學院能量，與國際合作團隊一起申請和執行各項國際級大型研究案（例如歐盟推動的 Horizon 2030），創造更多跨系、院、校之間的交流和跨界與跨國合作機會，藉此刺激與形成更多有利競逐國際聲望之整合性的專家聯盟團隊，繼而帶動相關領域的研究和產業取得革新突破，產出具突破性的重要科研成果，以邁向國際頂尖。

推薦人簽名	彭啟弘 Mar-30-2020

（本表如不敷使用請自行加印或延伸）

＊依國立中央大學生醫理工學院院長新任續任及去職作業要點第三條第一項第二款規定：「遴選委員會應就本院未來發展商訂院長候選人之條件，對外公開徵求或依下列方式接受推薦：(一)由遴選委員會委員推薦。(二)院內助理教授以上至少七人連署推薦。(三)自薦。…」。

國立中央大學生醫理工學院院長候選人資料表

一、個人基本資料

候選人簽名：阮啟弘

姓　　名	性　別	出 生 年 月 日	國　籍
阮啟弘	男	中華民國 61 年[redacted]	中華民國
通訊處：32001 桃園市中壢區中大路 300 號科學五館 6 樓 607			
電話：（公）03-4227151 ext. 65210　（宅）　（手機）[redacted] 傳真：03-4263502　電子郵件信箱：chijuan@cc.ncu.edu.tw			

	服 務 機 關 名 稱	專兼任	職 稱（職 級）	到 職 年 月 日
現職	認知神經科學研究所	專任	講座教授	2014 年 8 月 1 日
	認知智慧與精準健康照護研究中心	兼任	主任	2020 年 1 月 6 日
	認知神經科學研究所	專任	教授	2011 年 8 月 1 日

	學 校 名 稱	院 系 所	學位名稱	授 予 學 位 年 月
大學以上學歷	英國牛津大學	實驗心理學系	博士	2002 年 3 月
	高雄醫學大學	行為科學研究所神經科學組	碩士	1995 年 6 月
	高雄醫學大學	心理學系	學士	1993 年 6 月

	服 務 機 關 名 稱	專兼任	職 稱（職 級）	任 職 起 迄 年 月
經歷	生醫理工學院 腦科學研究中心	兼任	主任	2015 年 4 月~2020 年 1 月
	認知神經科學研究所	專任	特聘教授	2012 年 1 月~2014 年 12 月
	理學院	兼任	副院長	2012 年 8 月~2013 年 4 月
	認知神經科學研究所	專任	副教授	2008 年 8 月~2011 年 7 月
	認知神經科學研究所	專任	助理教授	2003 年 9 月 ~2008 年 7 月
	美國范德比爾大學 心理學系	專任	博士後研究員	2002 年 3 月 ~2003 年 8 月
	國立陽明大學	專任	神經心理學實驗室 研究助理	1997 年 6 月 ~1998 年 8 月

註：本表請打字填送並用 A4 紙張直式橫書，以 WORD 文書系統處理；字體請採「標楷體 12 點」。若不敷使用請以 A4 紙張自行影印。

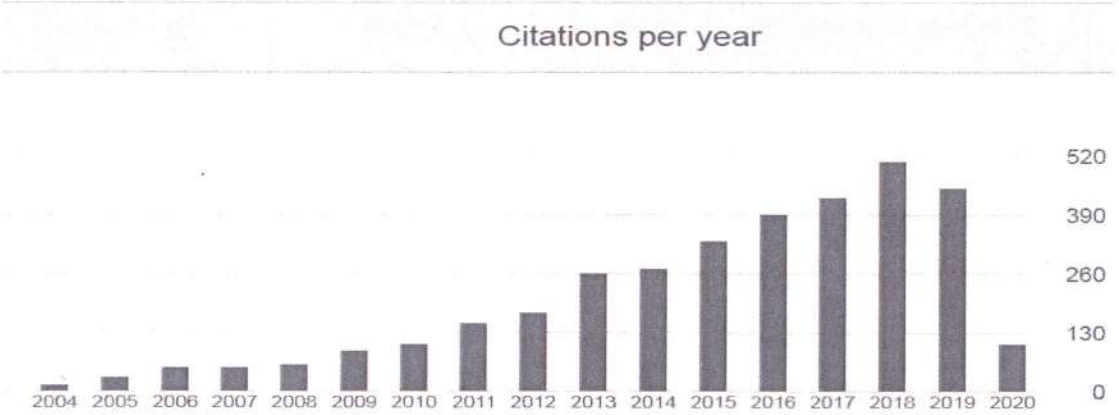
二、著作及作品目錄

Google Scholar

Chi-Hung Juan, 阮啟弘

Institute of Cognitive Neuroscience, National Central University, Taiwan
Verified email at cc.ncu.edu.tw - Homepage
Brain Stimulation EEG Cognitive Control Working Memory Depression

	All	Since 2015
Citations	3523	2223
h-index	31	26
i10-index	62	55



Patents:

1. 頭顱電刺激的系統及方法：中華民國專利發明第 I581818號。(May, 2017)

Book:

2. Learn to Read & Read to Learn (2010). By Jun-Ren Lee, **Chi-Hung Juan** et al., Hsin-Yi Foundation Publisher, Taipei, Taiwan (ISBN 978-986-161-401-4) (**Citations: 5 (Gs)**).

Journal articles: (* denotes corresponding author; citations updated on 14 January, 2020)

阮啟弘教授迄今合計出版 103 篇期刊論文（詳：附錄-著作及作品目錄），以下僅列出最具代表性之 5 篇成果論文。這 5 篇論文全數發表在國際指標性期刊，每項成果都是國際學術界首次的創新性研究，對於學術和相關領域的發展具有重要的突破。

1. Nguyen, K., Liang, WK, Lee, V., Chang, WS, Muggleton, N. Yeh, JR, Huang, N. E. and **Juan, CH***. (Nov, 2019). Unraveling nonlinear electrophysiologic processes in the human visual system with full dimension spectral analysis. ***Scientific Reports***, 9(1):16919, 1-13. (***Corresponding Author*; SCI, IF: 4.011; Ranking: 15/69(Multidisciplinary Sciences)**).

本篇論文為國際學術界第一篇以 HHSA（Holo-Hilbert Spectrum Analysis methods）應用於非線性腦電波生理訊號分析，以及揭露出精準非線性與動態視覺運作機制的研究成果。傳統的神經訊號分析方法，受限於線性與固定濾波（如 Fourier 與 Wavelet analysis）以及只注重線性資料中頻率的處理，完全忽略大腦非線性處理訊號的本質，

因此無法全面將神經訊號（如 EEG 與 local field potential）的複雜性與非線性特質進行有效分析。本團隊與黃鍔院士團隊共同開發且獨步全球的 HHSA 非線性動態數據分析方法，可正確解析神經訊號中不同頻段因相乘而產生的作用，以及相同頻段中因振幅不同而產生的調節作用。此次，我們以 HHSA 非線性動態數據分析方法，配合腦電波儀（Electroencephalography, EEG），記錄和分析穩態視覺誘發電位（steady-state visually evoked potential, SSVEP），以探討人類視覺系統如何處理振幅調節信號的非線性結構；除了突顯出視覺認知系統中神經動態歷程的動力學之外，亦無疑彰顯了 HHSA 的價值和潛力，令人期待在未來可將之更全面和有效應用到心理學、腦科學及生物醫學等眾多領域的研究中，以更深入而全面地了解人類腦區或神經組織如何溝通。

2. Nguyen, K., Liang, WK, Muggleton, N. G., Huang, N. E., **Juan, CH***. (Dec, 2019). Human visual steady-state responses to amplitude-modulated flicker: Latency measurement. ***Journal of Vision***, 19(14):14, 1–17. (***Corresponding Author*; SCI, IF: 2.089; Ranking: 29/60(Ophthalmology)**).

這項研究承續我們對於 HHSA（Holo-Hilbert Spectrum Analysis methods）和穩態視覺誘發電位（steady-state visually evoked potentials, SSVEP）的前期研究，進一步延伸與臨床診療進行結合。本項研究不僅為測量視覺反應時間的研究提供了新穎的方法，同時有助了解集體神經活動在腦中傳遞所需的時間，對於視網膜疾病，糖尿病及其他神經退化疾病造成的神經處理速度改變與相關的認知功能等研究將能有所貢獻。

3. Tseng, P., Hsu, TY, Chang, CF, Tzeng, OJL, Hung, DL, Muggleton, NG, Walsh, V, Liang, WK, Cheng, SK & **Juan, CH***. (Aug, 2012). Unleashing Potential: Transcranial Direct Current Stimulation over the Right Posterior Parietal Cortex Improves Change Detection in Low-Performing Individuals. ***Journal of Neuroscience*** 32(31):10554 –10561 **(*Corresponding Author*; SCI, IF: 6.908; Ranking: 22/251 (Neurosciences); Citations: 182(Gs)).**

這篇論文是國際學術界第一篇成功整合跨顱直流電刺激（tDCS）與事件相關腦電位（Event-Related Potential, ERP）二項先進的腦造影技術探討人類視覺工作記憶之神經機制的研究，證實了人類視覺工作記憶可透過現代認知神經科學技術獲得提升（如本研究之實驗所採用的 tDCS），研究成果具有高度理論與應用價值。茲附上期刊審查者對此論文支審稿意見及支持：

4. Hsu, TY., Tzeng, LY., Yu, JX., Kuo, WJ., Hung, DL., Tzeng, OJL., Walsh, V., Muggleton NG., & **Juan, C.H***. (Jun, 2011). Modulating inhibitory control with direct current stimulation of the superior medial frontal cortex. ***NeuroImage***, 56(4):2249-57. **(*Corresponding Author*; SCI, IF: 6.252; Ranking: 2/14 (Neuroimaging), 26/251 (Neurosciences) & 3/120(Radiology, Nuclear Medicine& Medical imaging); Citations: 195(Gs))**.

本研究發現使用跨顱直流電刺激（transcranial Direct Current Stimulation, tDCS）的正極電流短暫刺激前額葉上內側（Pre-SMA）後，可使受試者的衝動控制表現變好。這是國際學術界首次發現 anodal tDCS 施打於 Pre-SMA 可以改善受試者的衝動抑制能力，對於衝動抑制理論的建立、臨床治療、犯罪防治、教育等各方面皆有相當大的助益，是一項兼具理論與應用的重要研究成果。

5. Chen, C-Y. Muggleton, NG. Tzeng, OJL. Hung, DL. & **Juan, C-H***. (Jan, 2009). Control of prepotent responses by the superior medial frontal cortex. ***NeuroImage***, 44(2): 537-545. **(*Corresponding Author*; SCI, IF: 6.252; Ranking: 2/14 (Neuroimaging), 26/251 (Neurosciences) & 3/120(Radiology, Nuclear Medicine& Medical imaging; Citations: 176(Gs)).**

此篇論文是國際學術界第一篇利用跨顱磁刺激優越的腦認知功能決定性解析度，探討前額葉上內側在人類衝動抑制能力的角色；也是台灣首篇跨顱磁刺激研究刊登在 *NeuroImage* 此腦照影科學領域之重要期刊。此篇論文驗證前額葉上內側在衝動抑制神經網絡的關鍵角色，對於衝動抑制理論的建立與矯正運用上有重要的助益，目前已被引用超過176次。

三、其他（例如曾獲之榮譽、獎項及其他重要貢獻）

內　　容	時　　間
高雄醫學大學第 23 屆傑出校友（學術研究類）	2019
科技部 108 年度學術攻頂研究計畫	2019
2019 世界科學院社會科學獎（中央研究院於 2018 推薦）	2019
國立中央大學第一屆羅家倫校長年輕傑出研究獎	2018
國立中央大學講座教授(106 學年度；103 學年度)	2017, 2014
科技部「傑出研究獎」(2016, 2013 & 2010; 心理學門)	2016, 2013, 2010
教育部第 59 屆學術獎	2015
2015 Fellow, Association of Psychological Science, USA	2015
2015 Fellow, The Psychonomic Society, USA	2015
國立中央大學 104 學年度校務服務優良獎	2015
國立中央大學 102 學年度年輕傑出教研人員	2013
國立中央大學 100 學年度特聘教授	2012
國立中央大學學術研究傑出獎	2011, 2010, 2006
國立中央大學優良導師獎	2010
國立中央大學教學優良獎	2008
國立中央大學理學院優良教師	2008
2009 Fulbright Scholarship, Taiwan-USA	2009
中央研究院年輕學者研究著作獎	2006
英國牛津大學認知神經科學研究中心獎學金	1999~2001

四、對本院發展願景及治院理念

對於生醫理工學院的未來願景，我將秉持「一個核心理念以及四個發展方向」，用心經營學院的各項發展，與學員全體師生同仁共同成長。

核心：打造整合性合作平台。

整合學院內和校內各系所之長處，共同開創嶄新的研究方向，並建立交流與合作

的互惠平台。為校內樹立跨領域學術整合的模範標竿，以提高向外爭取大型並具影響力之政府機構研究計畫或產學合作計畫的成功機會，促進相關產能之優化及跨領域之整合，達到系所、院、中心及校等共營與共贏的發展。

一、 **研究**：(1) 打破系所疆界，整合學院內各系所之研究，並與資訊電機學院、理學院、工學院、管理學院及總教學中心等單位形成更緊密且具體的合作網絡和關係，積極強化與建構「生醫科學、工程、智能、運動、健康、醫療、長照」等生醫理工之整合性學術特色。

(2) 以跨系所整合及團隊合作模式，協助新進與資淺教研人員開拓暨深化個人之主題研究，讓年輕學者更順利地發展出獨立的學術影響力，同時建立更廣與更好的合作網絡。

二、 **教學**：生醫理工學院係跨領域的綜合性學院，各科系之研究與知識互有密切關聯。未來擬以學院為基石，運用槓桿原理，協助學院各單位完成扎實的理論性教學和研究，進而開拓更廣的應用面，幫助學生養成學用兼具的能力以及發掘興趣志向，從而拓展更多職涯選擇。

三、 **經濟**：串聯生醫理工學院與各學院及總教學中心進行整合性合作，並透過現有的榮台聯大研究案，壢新醫院合作案，桃園市市政府中大國民運動中心的連結，將生醫理工學院原已打下的產官研合作基礎與面向，擴大延伸在健康科學、智能發展、高齡化醫護與檢測、運動科學及精準醫療研究和人才培育等面向，提升研究能量、經濟產能及帶動生醫市場發展。

四、 **國際**：藉由前述各項發展，增加學院與中央大學的聲望和影響力，繼而透過教育部玉山（青年）學者或科技補延攬研究學者等方案，延攬國際一流的頂尖人才，同時吸引更多國際優秀學生入學，持續活絡與精進學院的各項發展。

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Patents:

1. 頭顱電刺激的系統及方法：中華民國專利發明第 I581818號。（May, 2017）

Book:

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