

# 出國報告（出國類別：參訪）

## University of Edinburgh參訪

服務機關：國立陽明大學

姓名職稱：郭文瑞副教授

派赴國家：英國

出國期間：103年5月5日至9日

報告日期：103年5月28日

## 參訪目的

建立與 University of Edinburgh 心理系的合作關係。為此目的，University of Edinburgh 心理系安排了一天的學術研討會，兩邊的研究人員安排於會中介紹自己的研究興趣與取向，以邀請或聯繫對方有興趣的研究人員合作。University of Edinburgh 心理系是一個具有傳統實驗心理學的研究與教學機構，近年來也積極結合認知神經科學的研究取向，朝認知與神經科學結合的整合性學科發展，與他們建立實質合作將可以形塑一個互信互利的研究社群。

## 參訪過程

應要參加這個訪問(邀請函如附件一)，於五月五日啟程，並於五月九日回到台北，共歷時五天的行程。行程中五月七日安排有一天的研討會(詳細議程如附件二)，由雙方的研究人員進行研究報告與討論。當天會後對方有導覽參觀他們的實驗室，包含有腦電波實驗室、嬰兒的實驗觀察與行為測量實驗室、嬰兒眼動實驗室、動作監控與測量實驗室(motion capture system/lab)。五月八日上午則是自由訪問，根據前一天研討會的內容，我方研究人員得於隔日上午前往拜訪有興趣進行合作的實驗室，進一步了解可以合作的議題內容與可行性。

## 參訪心得

討論會中我自己是報告有關中文處理的神經機制，主要是討論中文字在左、右腦中的處理效率與互動關係，除了行為資料的驗證外，也利用了 fMRI 直接觀察腦中的活動網路來評估這些互動。University of Edinburgh 心理系有一位資深教授 Professor Richard Shillcock，對於中文字處理也很有興趣，尤其是對中文字的一個現象，也就是字型解構(orthographic satiation/fading) 特別有興趣，目前他已經有一位來自台灣的博士班學生(清大外文系畢業)，正在進行這方面研究，未來更將繼續引用腦電波技術來探討這個議題；經聯繫，我們將針對這個現象進行雙邊合作，期待能用 fMRI 來解析這個現象背後的心理機制，提供證據來了解中文字處理所涉及的廣泛認知神經機制。

附件一：邀請函



COLLEGE of  
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20 March 2014

Dear Dr. Nissen Wen-Jui Kuo

I am very pleased to invite you to visit the University of Edinburgh during the week beginning 5th May 2014 with a view to discussing your research with colleagues in Psychology and Linguistics at this University. We would hope that you would explore possible research collaborations within those discussions and also consider possibilities for students from Taiwan to study at the University of Edinburgh.

I look forward to hearing from you and to welcoming you to the University of Edinburgh.

Yours sincerely

Robert H Logie  
Professor of Human Cognitive Neuroscience

## Edinburgh-Taiwan Research Exchange (ETRE)

Wednesday 7 May 2014

Room S1, PPLS, 7 George Square

We are delighted to announce a one-day workshop presenting current research in Edinburgh and in major Taiwanese institutions.

10:00	Dave Carmel <sup>e</sup>	Mechanisms of conscious and unconscious perception
10:20	Philip Tseng <sup>a</sup>	What can brain stimulation do for visual working memory?
10:40	Erik Chihhung Chang <sup>a</sup>	Executive control and visual search in cognitive ageing
11:00	COFFEE	
11:20	Adam Moore <sup>e</sup>	What's so special about moral judgement? Maybe not as much as you think
11:40	Shih-Wei Wu <sup>b</sup>	Neural mechanisms for updating and choice computations in sequential decision-making
12:00	Rob McIntosh <sup>e</sup>	Where the action is
12:20	LUNCH	
14:00	Martin Corley <sup>e</sup>	Listening to spoken language: The case of disfluency
14:20	Denise Hsien Wu <sup>a</sup>	Linguistic universality and specificity of processing and retaining Chinese materials
14:40	Jun-Ren Lee <sup>c</sup>	Phonological processing and learning to read Chinese
15:00	COFFEE	
15:20	Richard Shillcock <sup>e</sup> & Y-Ting Hsiao <sup>e</sup>	Three methods for looking at Chinese character recognition
15:40	Wen-Jui Kuo <sup>b</sup>	Re-examining the Chinese character-word processing difference in the brain using fMRI
16:00	Ovid Jyh-Lang Tzeng <sup>d</sup>	Joint Research Center for Languages and Human Complexity: A New Adventure

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<sup>c</sup> National Academy for Educational Research

<sup>d</sup> Institute of Linguistics, Academia Sinica

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