

My career trajectory and research

謝清麟教授

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atriptouq.blogspot.com

大綱

為何走上這條路

之前如何走這條路

- 教學/服務/研究

後續想走什麼路

學歷

Why 研究所？ 1st career choice
期待！！

BS: NTU 復健醫學系
職能治療組 1984~8

MS: Western Michigan
University (職能治療)
1990~1

PhD: University of Queensland (社會學)
1991~4

經 歷

Why NTU? 2nd career choice
Why research first? 3rd career choice

- TA: 1994~5
- Lecturer: 1995~8
- Associate Professor: 1998~2003
 - Professor: 2003~
- 系/所主任 2001~7
- NTUH 兼任治療師 (1994~, except a year)
- NTUH 復健部職能治療科主任 (2005~7)

3次半年 研究休假

當教授的超大好處之一！！

休息

充電

研究生/助理
喘息

退休前
還有3次

教學/臨床/研究

- 我先投入研究的因素/條件 (5/3/2)
 - TA升等
 - 學系評鑑 (宋瑞樓院士)
 - 1994~2001只有大學部
 - 次要的課//臨床教學學分
 - 授課負擔有限//very lucky



優缺點! ?
建議學生以教學為優先

當初如何挑選研究主題？

- 1994～6 我會什麼？碩博班學到什麼？
- 臨床相關議題
- 可行性、價值與方法
 - 就地取材
 - 基礎/關鍵？
 - 研究方法/資料分析

1994~6 著作：摸索與努力發表

既有基礎
快速、可行
逐步確認方向

- 謝清麟, 毛慧芬. 台北市民眾對職能治療的認識程度調查. 職能治療學會雜誌. 1994;12:21-28.
- 謝清麟, 薛漪平. 職能治療學生臨床實習滿意度及相關因素探討. 職能治療學會雜誌. 1994;12:11-20.
- 王淳厚, 謝清麟, 詹美華. 物理治療學生臨床實習滿意度探討. 中華民國物理治療學會雜誌 1995;20:131-139.
- 黃小玲, 謝清麟, 林伯欣, 楊怡君, 黃恢濤. 伯格氏平衡量表之信度及同時效度檢定. 職能治療學會雜誌. 1995;13:25-33.
- Hsieh CL, Nelson DL, Smith DA, Peterson CQ. A comparison of performance in added-purpose occupations and rote exercise for dynamic standing balance in persons with hemiplegia. Am J Occup Ther. 1996;50:10-16.
- 毛慧芬, 張久怡, 李文淑, 謝清麟. 中風病人患側傾斜現象之相關因素. 職能治療學會雜誌. 1996;14:55-65.
- 祝旭東, 王淳厚, 謝清麟, 陳美香, 陳瓊玲. 布氏動作恢復量表之信度及同時效度研究. 職能治療學會雜誌. 1996;14:1-12.
- 謝清麟, 李孟峰. 影響中風病人重返工作之因素. 職能治療學會雜誌. 1996;14:27-34.
- 張彧, 黃曼聰, 謝清麟, 李文淑. 影響手部外傷勞工重返工作因素之探討. 職能治療學會雜誌. 1996;14:115-125.

1997~2000: 研究主軸（評估工具）之確認

- 何祖華, 薛漪平, 謝清麟. 腦中風病人復健入院時平衡能力與出院時日常生活功能之關連. 慈濟醫學雜誌. 2000;12:43-48.
- 王淳厚, 陳怡靜, 葉純妤, 楊政峰, 謝清麟. 醫學中心物理治療部門對中風病患使用的評估量表之心理計量特性. 中華民國物理治療學會雜誌. 2000;25:215-222.
- 毛慧芬, 謝清麟. 台北市民眾對職能治療專業認識程度之再調查. 職能治療學會雜誌. 2000;18:81-87.
- Hsueh IP, Huang SL, Chen MH, Jush SD, Hsieh CL. Evaluation of stroke patients with the extended activities of daily living scale in taiwan. Disabil Rehabil. 2000;22:495-500.
- Hsieh CL, Hsueh IP, Mao HF. Validity and responsiveness of the rivermead mobility index in stroke patients. Scand J Rehabil Med. 2000;32:140-142.
- 謝清麟, 黃小玲, 廖端蓉. 國內醫學中心職能治療部門對中風病患評估量表的使用狀況與建議. 職能治療學會雜誌. 1999;17:60-66.
- 毛慧芬, 謝清麟, 朱珍真, 林克忠, 廖端蓉. 中風患者功能性平衡量表之因素分析. 台灣醫學. 1999;3:287-294.
- 毛慧芬, 楊政峰, 謝清麟. 臺灣地區物理治療及職能治療學術研究活動及趨勢調查. 中華民國物理治療學會雜誌. 1999;24:286-292.
- Hsieh CL, Hsueh IP. A cross-validation of the comprehensive assessment of activities of daily living after stroke. Scand J Rehabil Med. 1999;31:83-88.
- Hsieh CL, Hsueh IP, Chiang FM, Lin PH. Inter-rater reliability and validity of the action research arm test in stroke patients. Age Ageing. 1998;27:107-113.
- 謝清麟. 芙蘭切活動量表之信度及效度驗證. 慈濟醫學雜誌. 1997;9:123-130.
- 薛漪平, 謝清麟. 中風患者芙蘭切活動量表效度之再驗證：大台北地區研究. 台灣醫學 1997;1:696-702.
- Hsieh CL, Lee MH. Factors influencing vocational outcomes following stroke in taiwan: A medical centre-based study. Scand J Rehabil Med. 1997;29:113-120.

升教授之主要論文

- Hsueh IP, Wang CH, Sheu CF, Hsieh CL. Comparison of **psychometric properties** of three mobility measures for patients with stroke. **Stroke**. 2003;34:1741-1745. 53
- Mao HF, Hsueh IP, Tang PF, Sheu CF, Hsieh CL. Analysis and comparison of the **psychometric properties** of three balance measures for stroke patients. **Stroke**. 2002;33:1022-1027. 249
- Hsueh IP, Lin JH, Jeng JS, Hsieh CL. Comparison of the **psychometric characteristics** of the functional independence measure, 5 item barthel index, and 10 item barthel index in patients with stroke. **J Neurol Neurosurg Psychiatry**. 2002;73:188-190. 192
- Hsieh CL, Sheu CF, Hsueh IP, Wang CH. Trunk control as an **early predictor** of comprehensive activities of daily living function in stroke patients. **Stroke**. 2002;33:2626-2630. 164

教授之後，想或須 做研究？

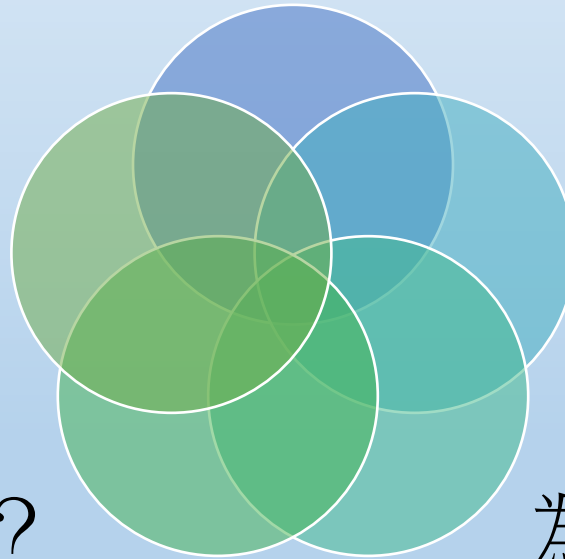
為自己？

做什麼？

為教師
評鑑？

為學生？

為專業？



臨床/行政

兼任職能治療師

系所主任：2001~7

臨床主管：2005~7

學公會偶爾。。。。

近6年幾近退隱，可能再持續10年

很自由—當教授的另一超級好處

臨床職能治療的困境

專業不獨立

- 復健部/精神部

治療師專長未凸顯

- 未發展次專長
- 未長期參與研究團隊

2005~7 兼臨床主任能做什麼？

學系教授能做什麼？

學系主任(2001~7) 角色與困境

開辦碩班 2001

籌辦博班 2004

Waiter or Boss

願景與現實

人與經費

教師之競合

學生之需求與困境

院校放牛



提高升等標準//與一般科系同

教學

- 大學
 - 醫學倫理學（必）
 - 科學文獻導讀（選）
- 研究所
 - 文獻評析與彙整
 - 心理計量驗證

前15年沒成就感
最近或有一點好轉
翻轉教學– audio-, video-taping

醫學倫理學

以個案為中心的決策

共享決策 (shared decision making)

- 治療目標
- 治療計畫

保持專業能力

很理論/遙遠

教學與研究：醫倫有何研究議題？

- 共享決策
 - 決策模式與成效
 - 決策輔助工具
- 醫病溝通
- 健康識能 (health literacy)
- 衛教
- 醫療人員專業能力評估與提升

- 應用於臨床？

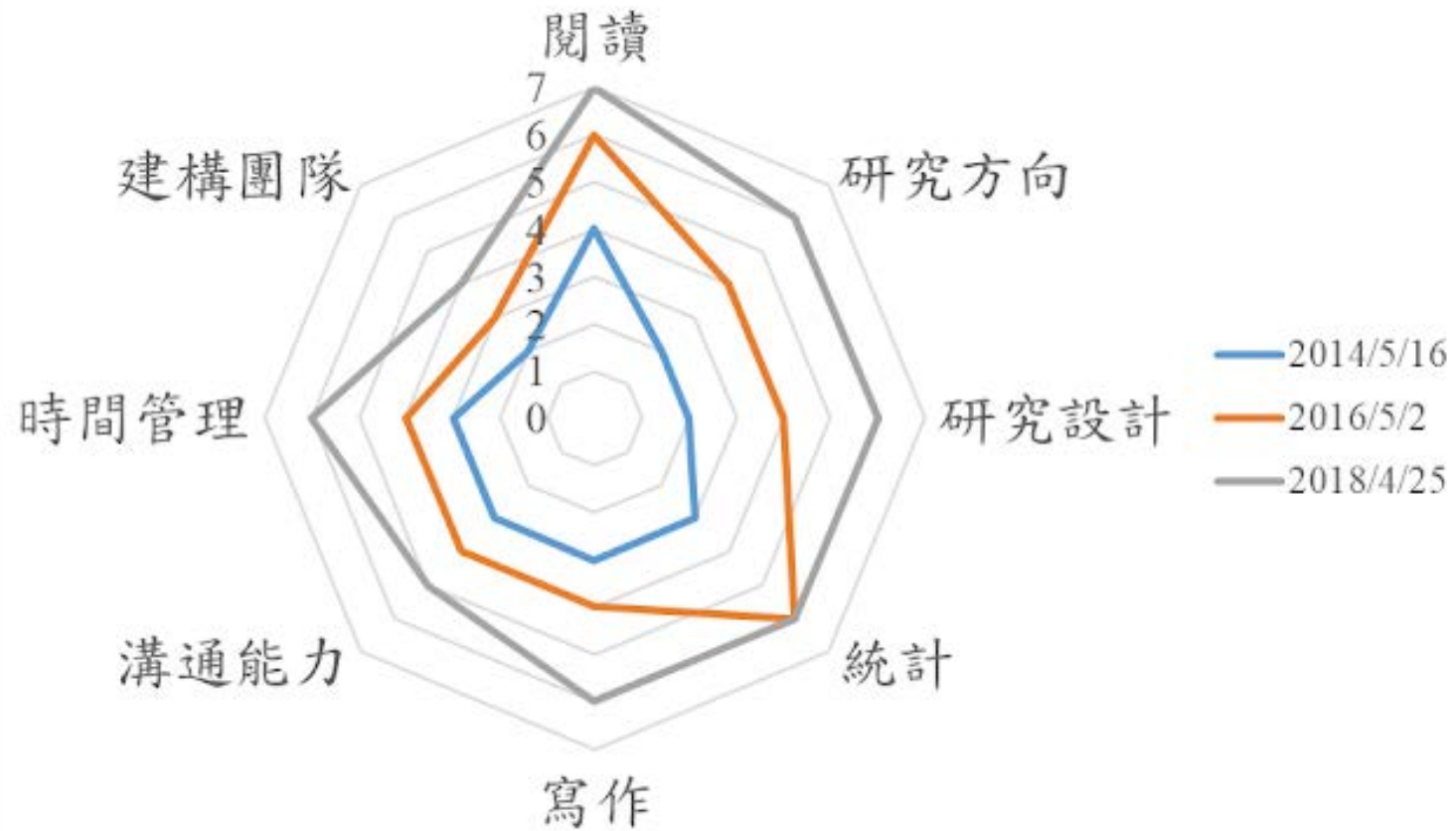
健康識能 (health literacy) 理論與問卷

- Huang YJ, Lin GH, Lu WS, Tam KW, Chen C, Hou WH, Hsieh CL. **Validation of the European health literacy survey questionnaire** in women with breast cancer. Cancer Nurs. 2018;41:E40-e48.
- Huang YJ, Chen CT, Lin GH, Wu TY, Chen SS, Lin LF, Hou WH, Hsieh CL. **Evaluating the European health literacy survey questionnaire** in patients with stroke: A latent trait analysis using Rasch modeling. Patient. 2018;11:83-96.
- Hou WH, Huang YJ, Lee Y, Chen CT, Lin GH, Hsieh CL. **Validation of the integrated model of health literacy** in patients with breast cancer. Cancer Nurs. 2017.
- Hou WH, Hoffmann T, Huang YJ, Wu TY, Chen SS, Hsieh CL. A systematic **review of tests assessing stroke knowledge**. J Cardiovasc Nurs. 2017;32:271-280.
- Huang YJ, Wang YL, Wu TY, Chen CT, Kuo KN, Chen SS, Hou WH, Hsieh CL. **Validation of the short-form health literacy scale** in patients with stroke. Patient Educ Couns. 2015;98:762-770.

帶 研究生

- 攻讀博士？
- 有潛力嗎？學習態度與能力
- 如何讓土博士游向大海？
 - 統計
 - 學術專長
 - 英文
 - 千里馬
 - 國外博後
- 畢業生有限，但都可以找到好工作

八大研究核心能力



今年畢業，比我當時厲害！

- Lin GH, Wu CT, **Huang YJ**, Lin P, Chou CY, Lee SC, Hsieh CL. A reliable and valid assessment of sustained attention for patients with schizophrenia: The computerized digit vigilance test. Arch Clin Neuropsychol. 2018;33:227-237.
- Lin GH, **Huang YJ**, Lee SC, Huang SL, Hsieh CL. Development of a computerized adaptive testing system of the functional assessment of stroke. Arch Phys Med Rehabil. 2018;99:676-683.
- Lee SC, **Huang YJ**, Lin GH, Chou YT, Chou CY, Hsieh CL. Development of a social functioning assessment using computerized adaptive testing for patients with stroke. Arch Phys Med Rehabil. 2018;99:306-313.
- **Huang YJ**, Lin GH, Lu WS, Tam KW, Chen C, Hou WH, Hsieh CL. Validation of the european health literacy survey questionnaire in women with breast cancer. Cancer Nurs. 2018;41:E40-e48.
- **Huang YJ**, Lin GH, Lee SC, Chen YM, Huang SL, Hsieh CL. Group- and individual-level responsiveness of the 3-point berg balance scale and 3-point postural assessment scale for stroke patients. Arch Phys Med Rehabil. 2018;99:529-533.
- **Huang YJ**, Chen CT, Lin GH, Wu TY, Chen SS, Lin LF, Hou WH, Hsieh CL. Evaluating the european health literacy survey questionnaire in patients with stroke: A latent trait analysis using rasch modeling. Patient. 2018;11:83-96.
- Wang YL, Lin GH, **Huang YJ**, Chen MH, Hsieh CL. Refining 3 measures to construct an efficient functional assessment of stroke. Stroke. 2017;48:1630-1635.
- Lin GH, **Huang YJ**, Lee SC, Huang SL, Hsieh CL. Development of a computerized adaptive testing system of the functional assessment of stroke. Arch Phys Med Rehabil. 2017.
- Hou WH, **Huang YJ**, Lee Y, Chen CT, Lin GH, Hsieh CL. Validation of the integrated model of health literacy in patients with breast cancer. Cancer Nurs. 2017.
- Hou WH, Hoffmann T, **Huang YJ**, Wu TY, Chen SS, Hsieh CL. A systematic review of tests assessing stroke knowledge. J Cardiovasc Nurs. 2017;32:271-280.
- Chou CY, Huang CY, **Huang YJ**, Lin GH, Huang SL, Lee SC, Hsieh CL. Comparison of construct validity of two short forms of stroke-specific quality of life scale. PLoS One. 2017;12:e0188478.
- Chen YM, **Huang YJ**, Huang CY, Lin GH, Liaw LJ, Lee SC, Hsieh CL. Test-retest reliability and minimal detectable change of two simplified 3-point balance measures in patients with stroke. Eur J Phys Rehabil Med. 2017;53:719-724.
- Lin GH, **Huang YJ**, Huang CY, Lu WS, Chen SS, Hou WH, Hsieh CL. Trajectories of quality of life in patients with traumatic limb injury: A 2-year follow-up study. Qual Life Res. 2016;25:2283-2293.
- Huang CY, Lin GH, **Huang YJ**, Song CY, Lee YC, How MJ, Chen YM, Hsueh IP, Chen MH, Hsieh CL. Improving the utility of the brunstrom recovery stages in patients with stroke: Validation and quantification. Medicine (Baltimore). 2016;95:e4508.
- **Huang YJ**, Wang YL, Wu TY, Chen CT, Kuo KN, Chen SS, Hou WH, Hsieh CL. Validation of the short-form health literacy scale in patients with stroke. Patient Educ Couns. 2015;98:762-770.
- **Huang YJ**, Chen KL, Chou YT, Hsueh IP, Hou CY, Hsieh CL. Comparison of the responsiveness of the long-form and simplified stroke rehabilitation assessment of movement: Group- and individual level analysis. Phys Ther. 2015;95:1172-1183.

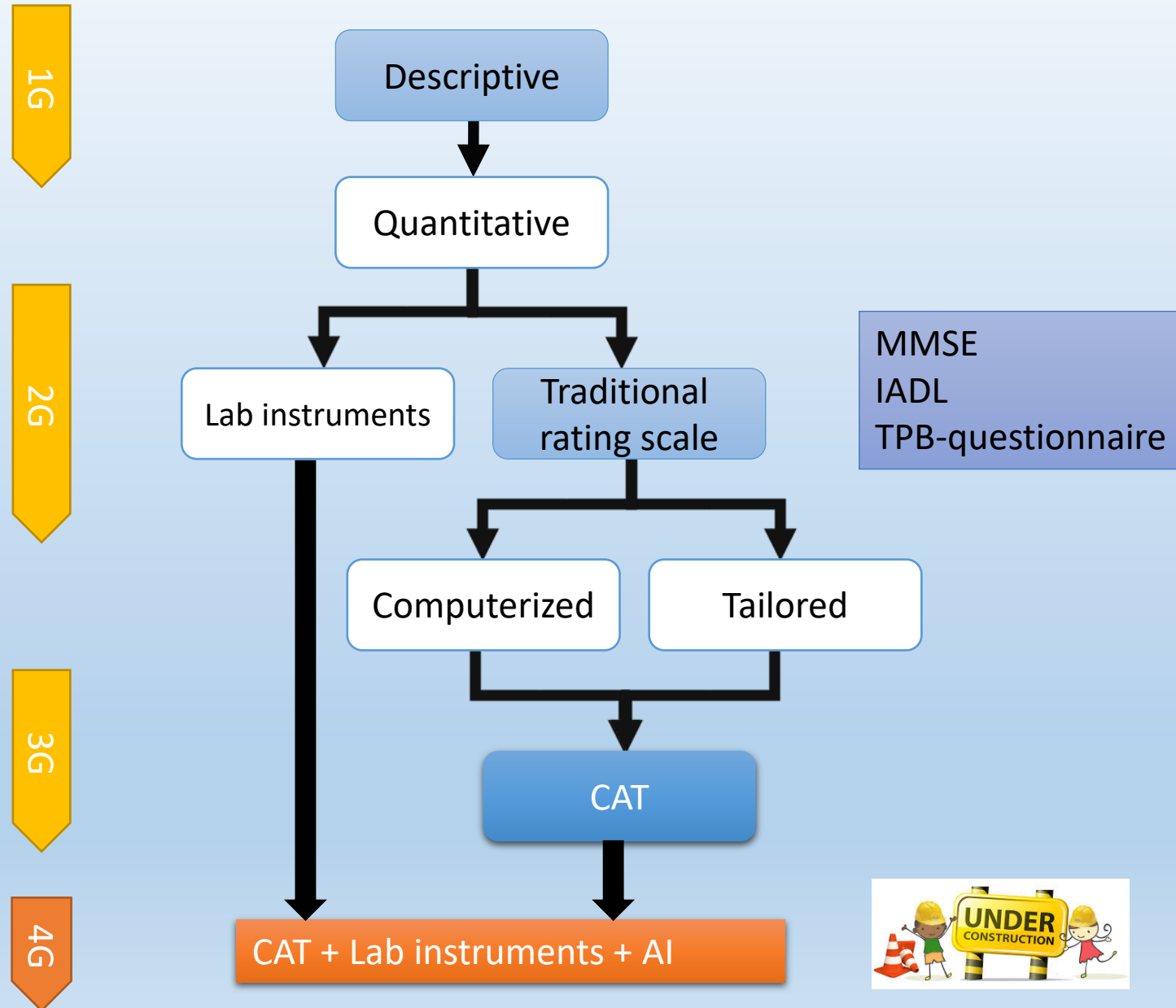
建構團隊：我的貴人—跟高手學習

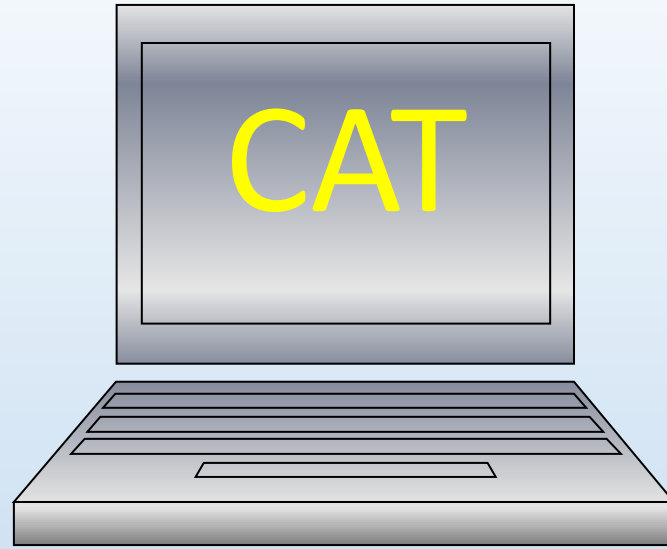
- 薛漪平 教授
- 許清芳 教授
- 王文中 教授
- 王榮德 教授
- 院士：宋瑞樓、陳定信、陳培哲
- 胡海國 教授

- 老婆—讓我沒有後顧之憂—給我刺激（每次被退稿）

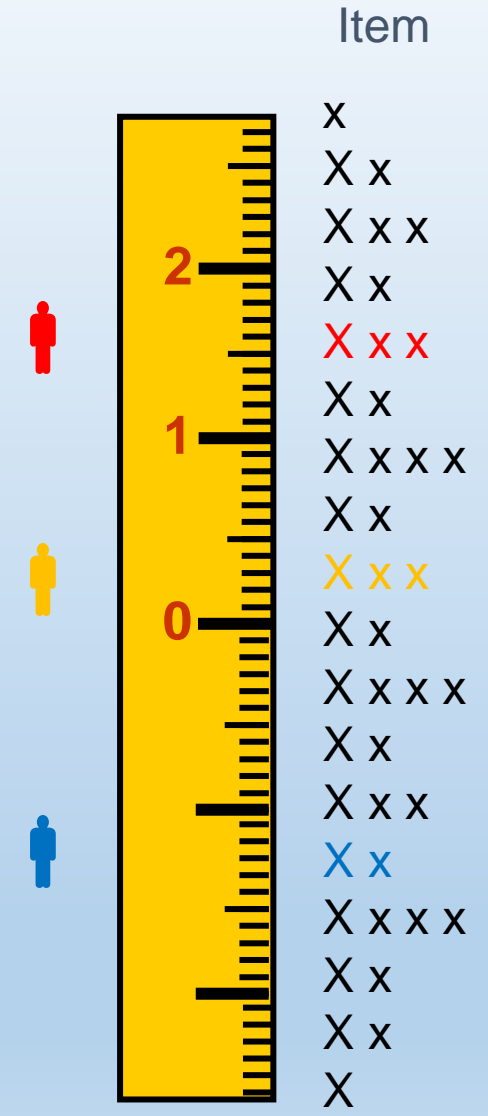
- 學生：黃怡靜博士、林恭宏博士

Revolution of Clinical measures

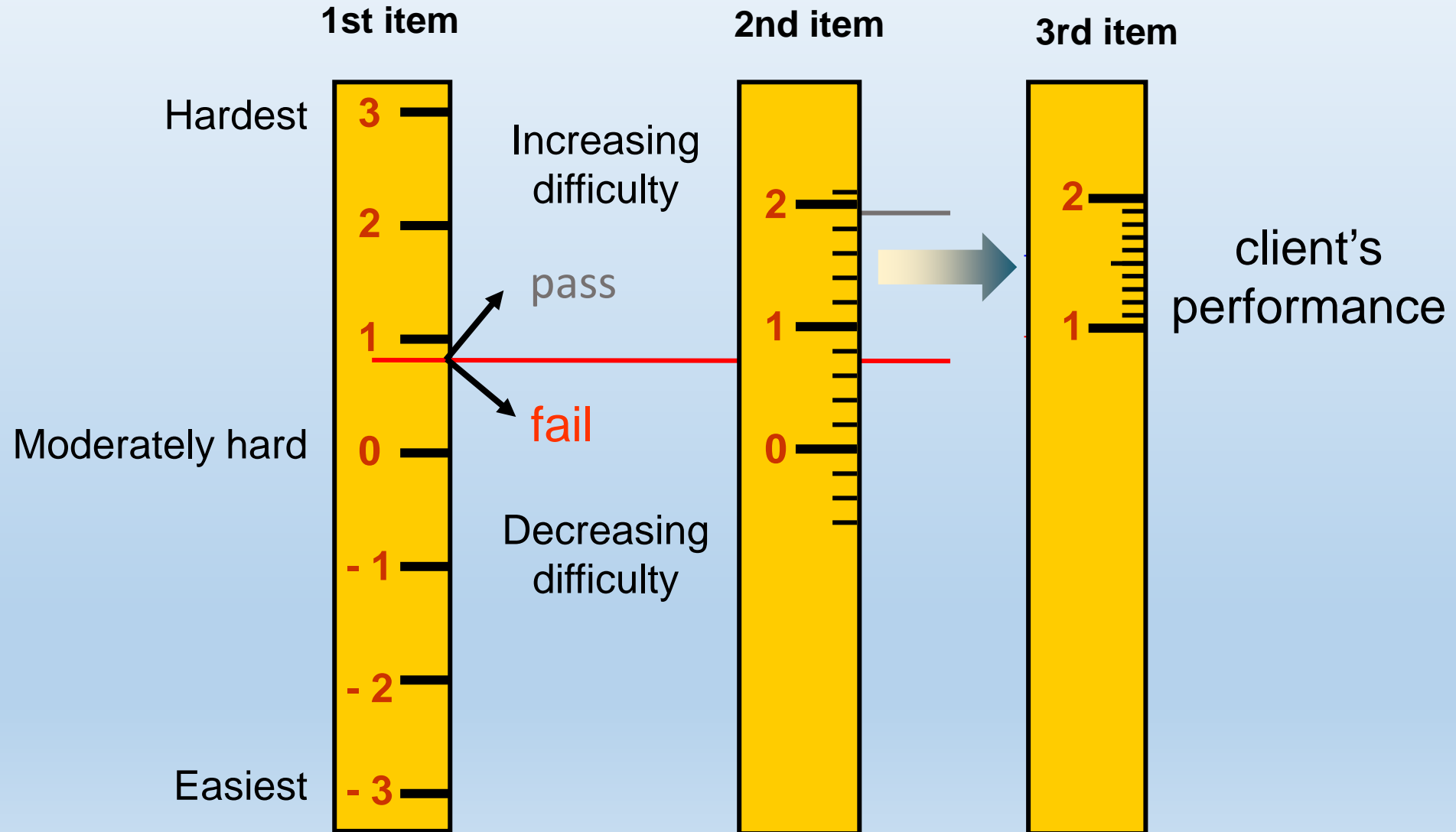




- Computer-based testing
- Adaptive testing
 - Mainly tested on items with difficulty nearby clients' ability
 - Based on previous responses
- computerized adaptive test (CAT)



Fast and Precise





Assessment CenterSM

<http://www.healthmeasures.net/>

Resource Center//Assessment Center

<https://www.assessmentcenter.net/>

PROMIS Depression domain

The screenshot shows a Microsoft Internet Explorer browser window displaying a survey page. The address bar shows the URL: `http://204.26.30.69/PROMIS/Default.aspx?SID=5D749A1A-46FD-4E7D-BBFF-08D644DDF9D4`. The page header includes the PROMIS logo and a navigation bar. The main content area displays the following text:

Section 9 of 17

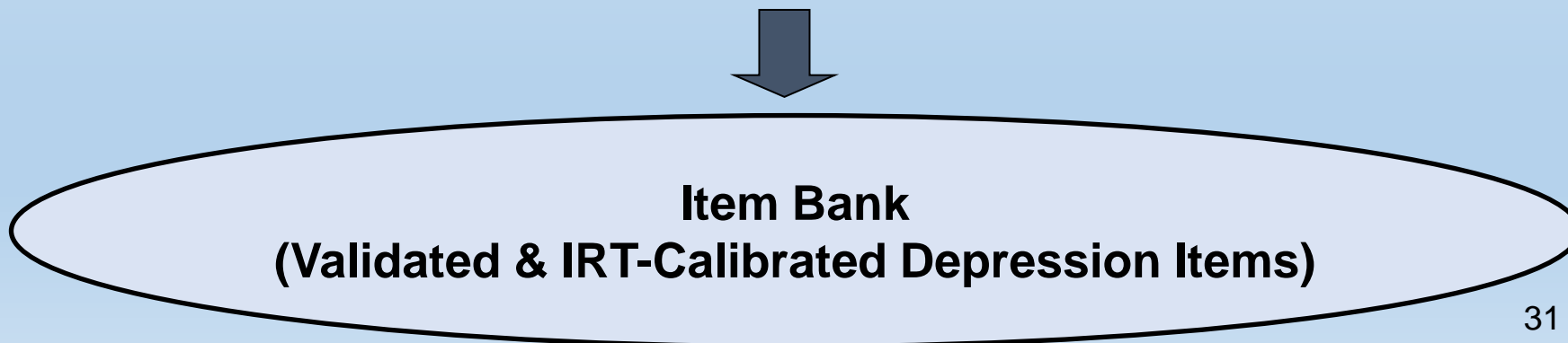
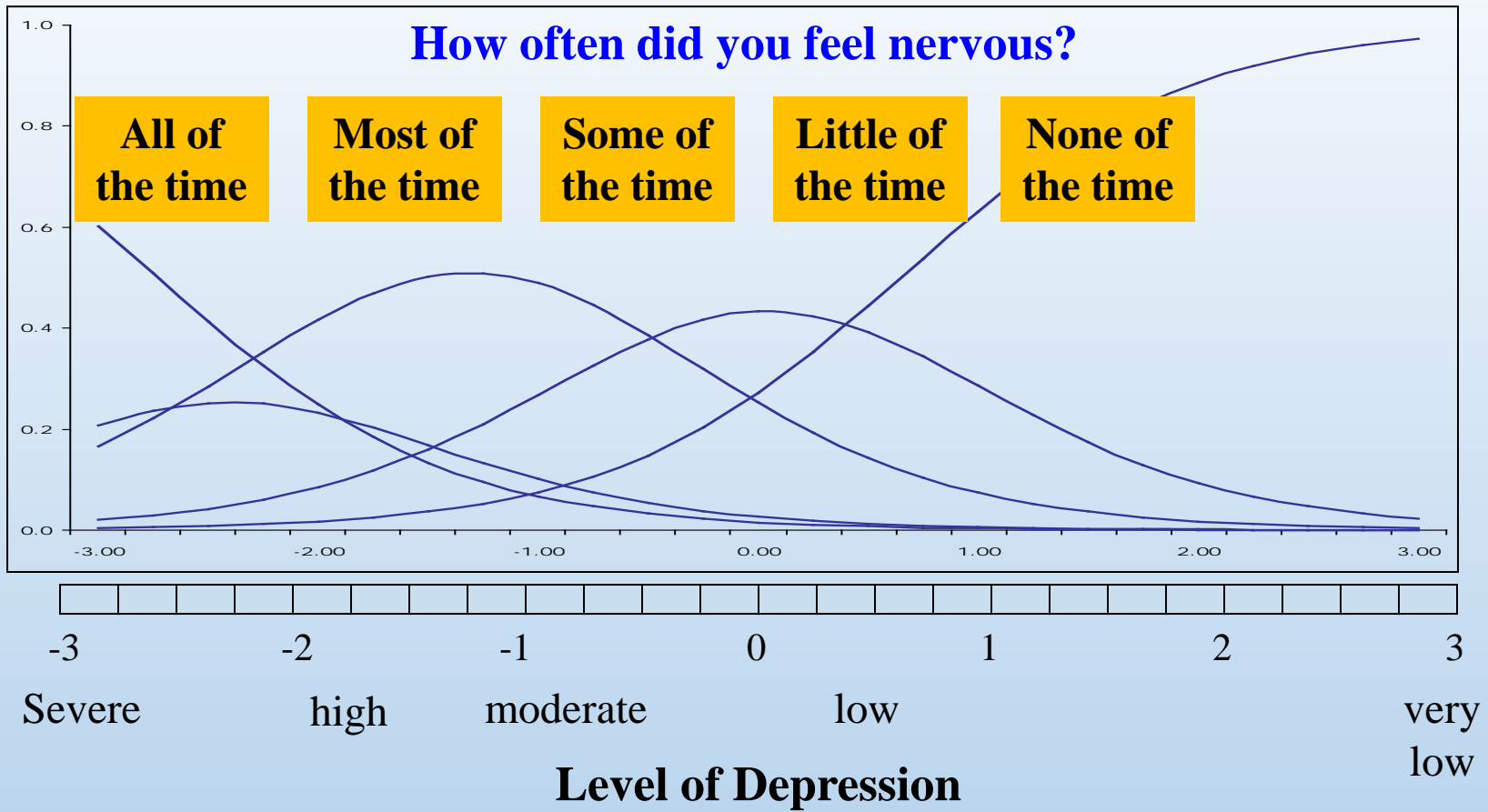
In the past 7 days

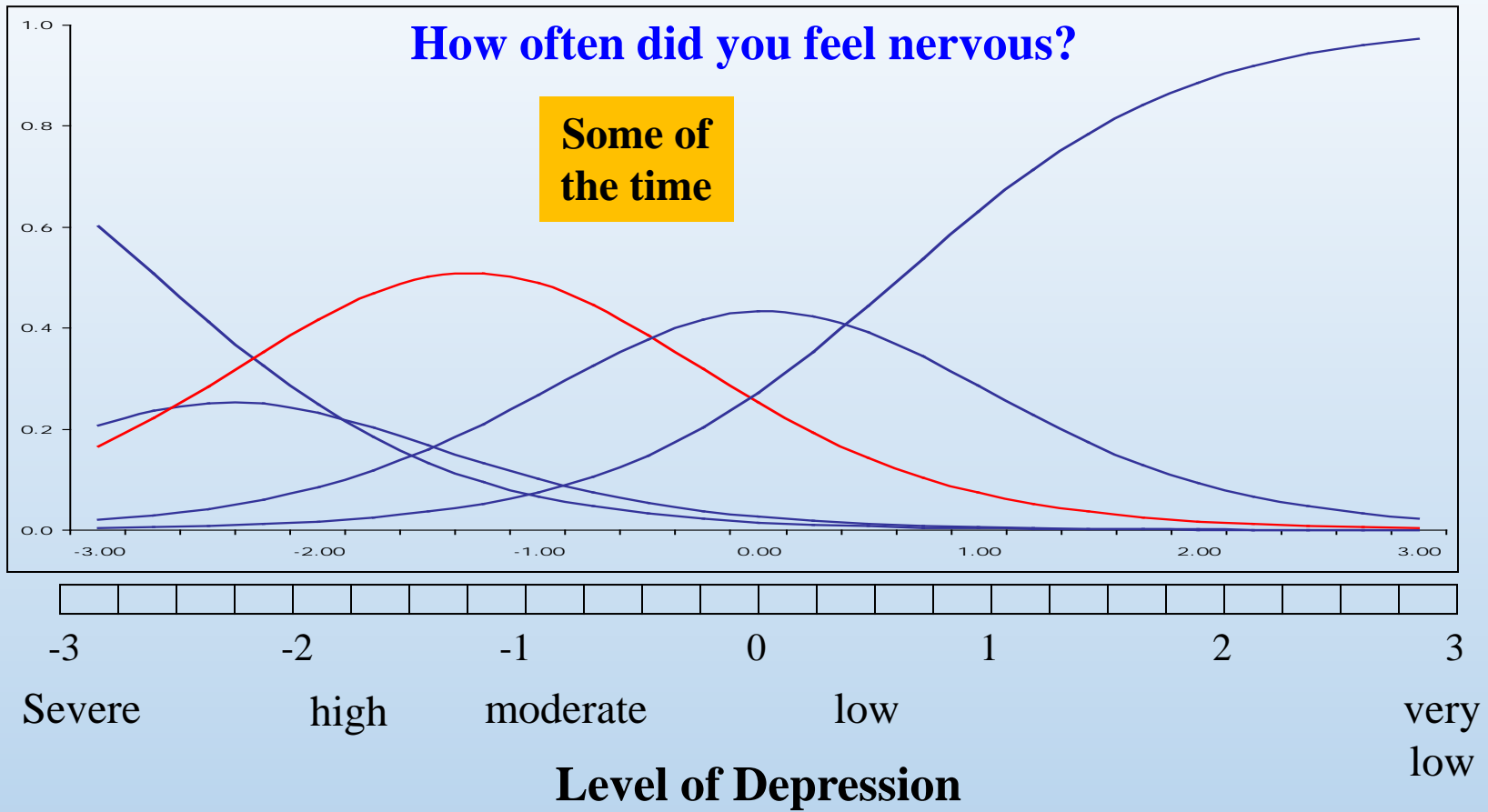
It was difficult to let people know I was angry

- Never**
- Rarely**
- Sometimes**
- Often**
- Always**

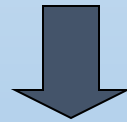
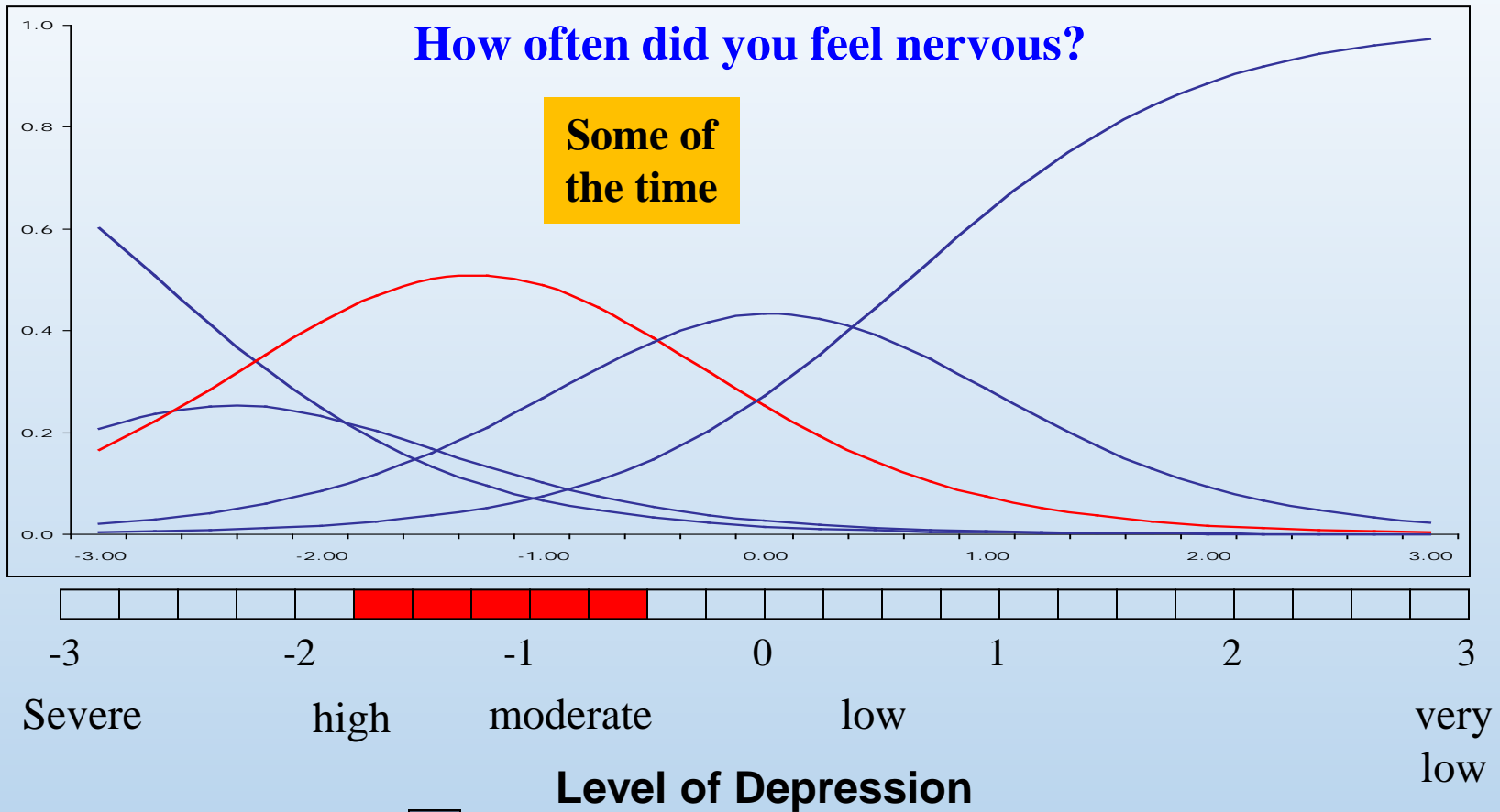
At the bottom of the survey area, there are three buttons: **Back**, **Continue**, and **Exit Survey**.

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 3:24 PM.

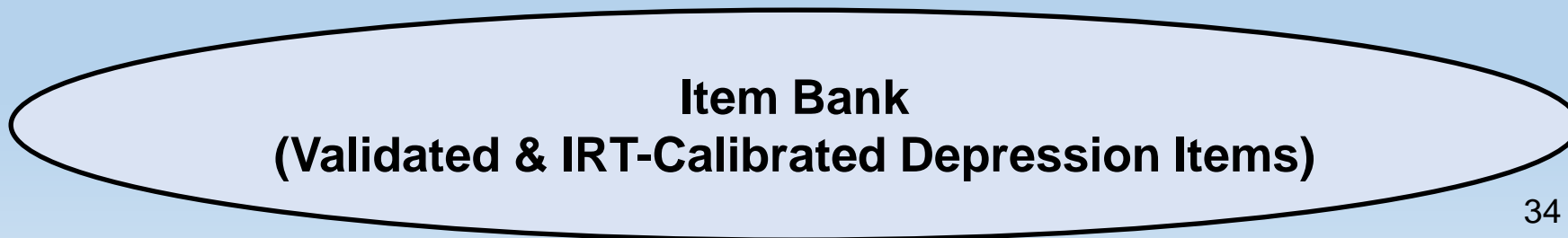
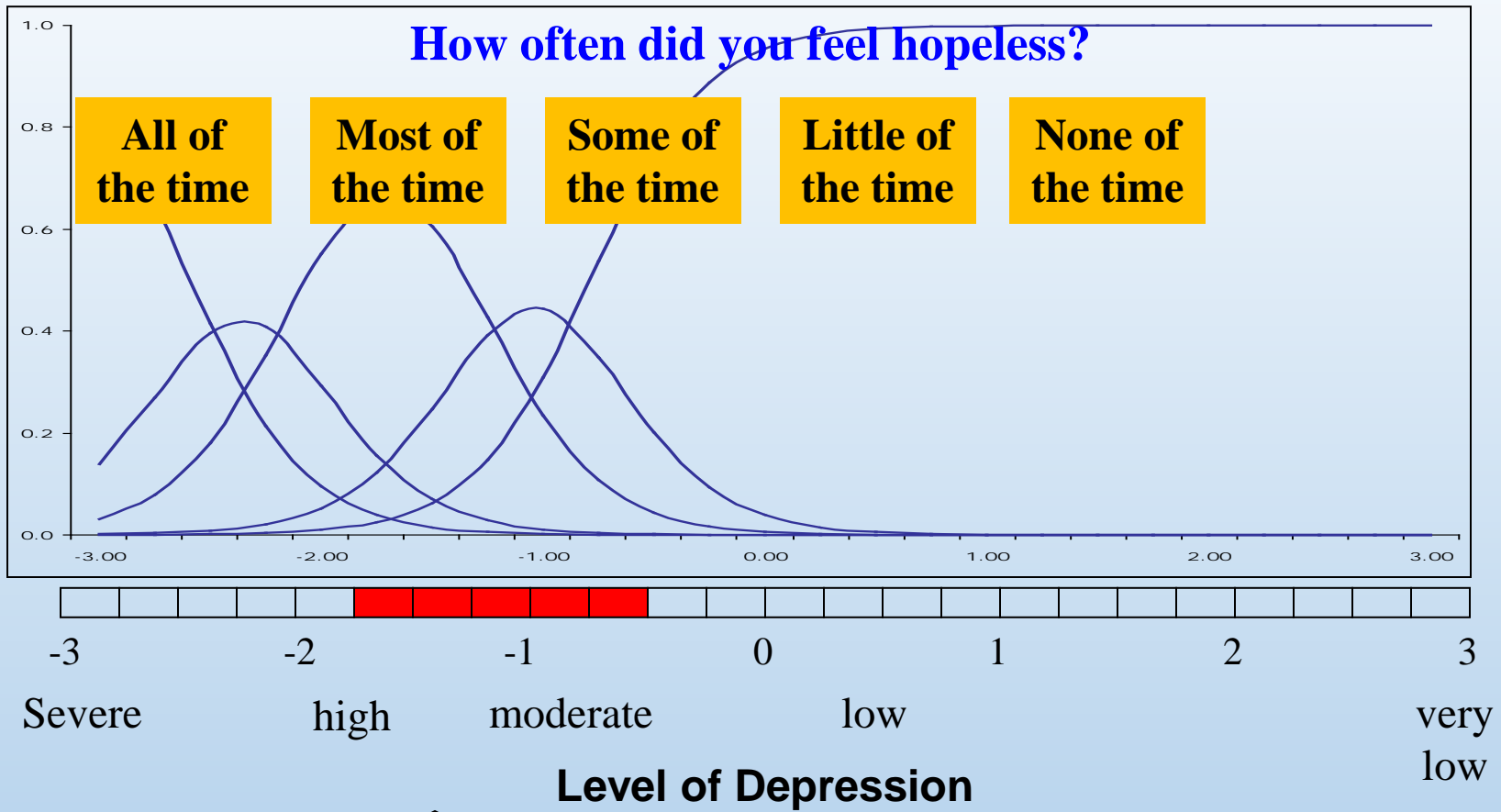


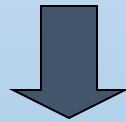
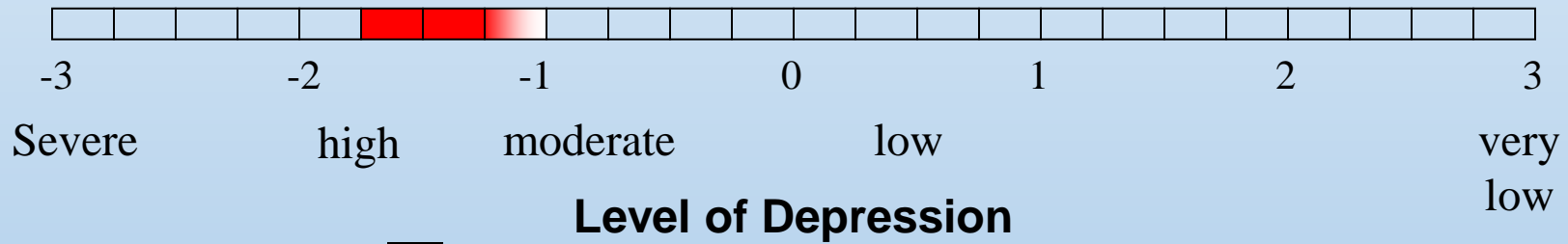
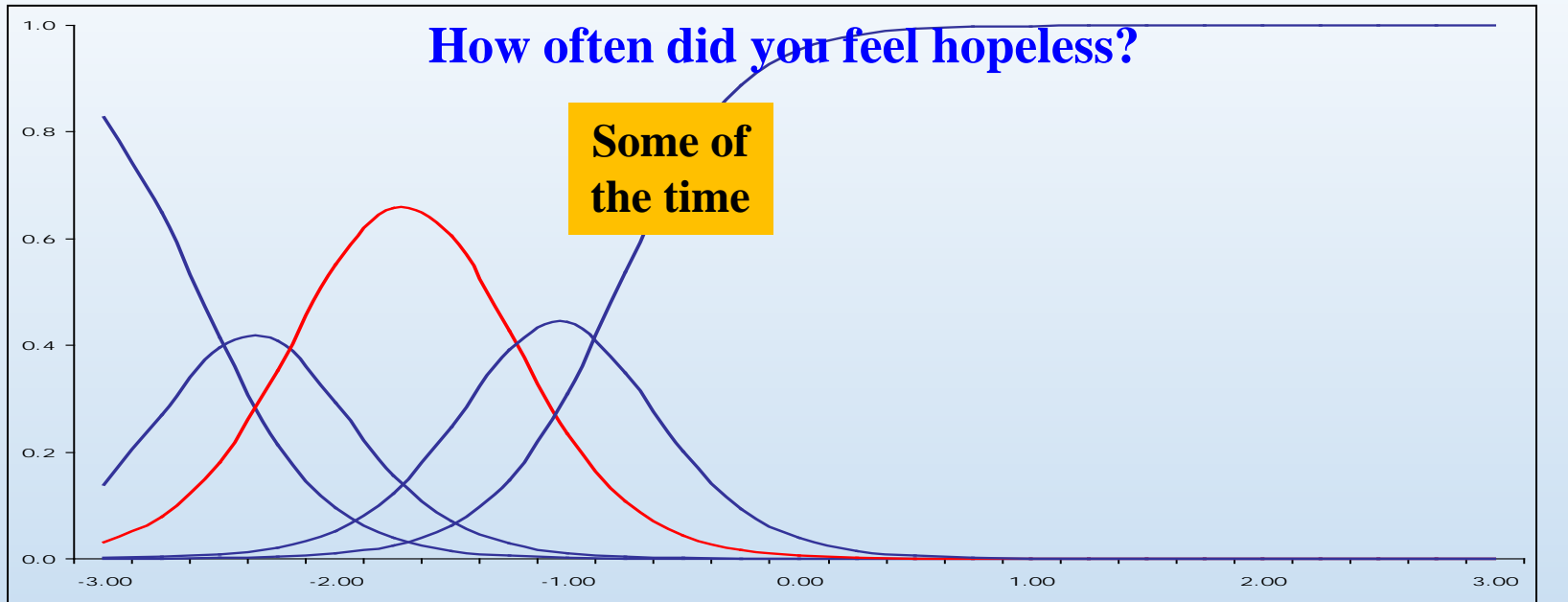


**Item Bank
(Validated & Depression Items)**

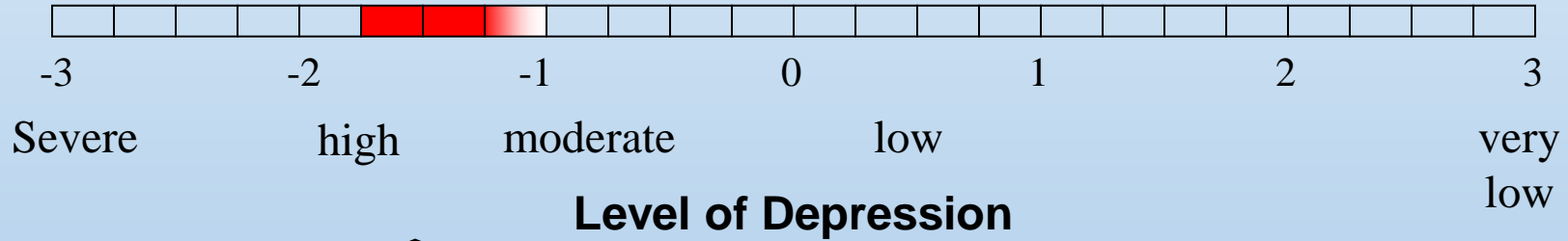
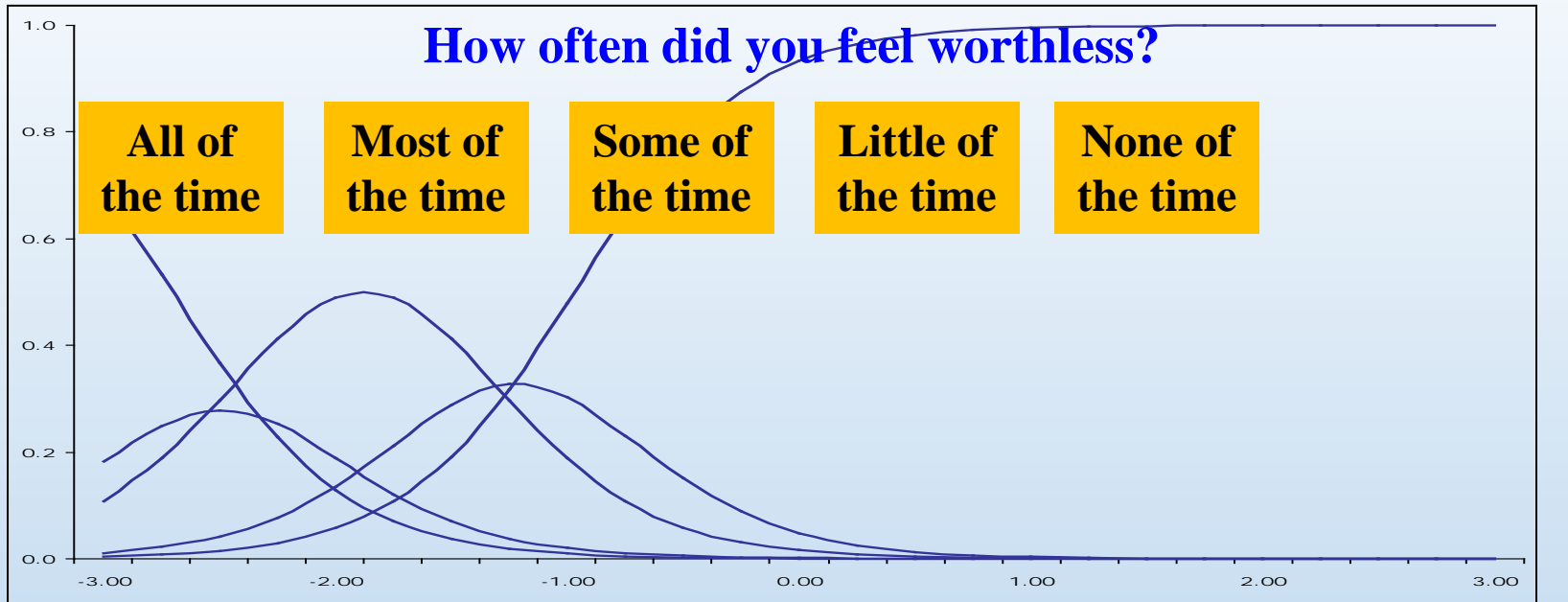


Item Bank
(Validated & IRT-Calibrated Depression Items)

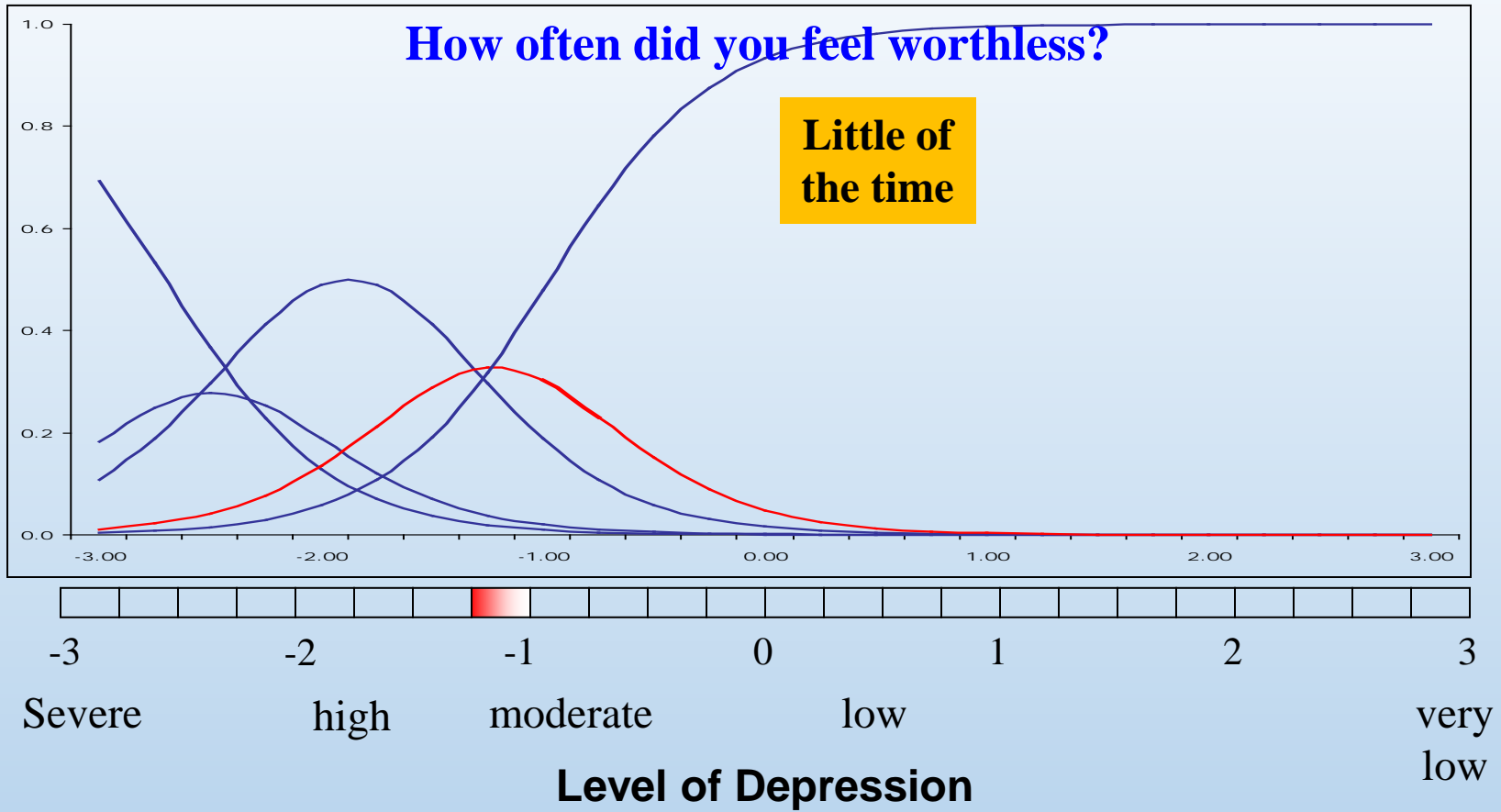




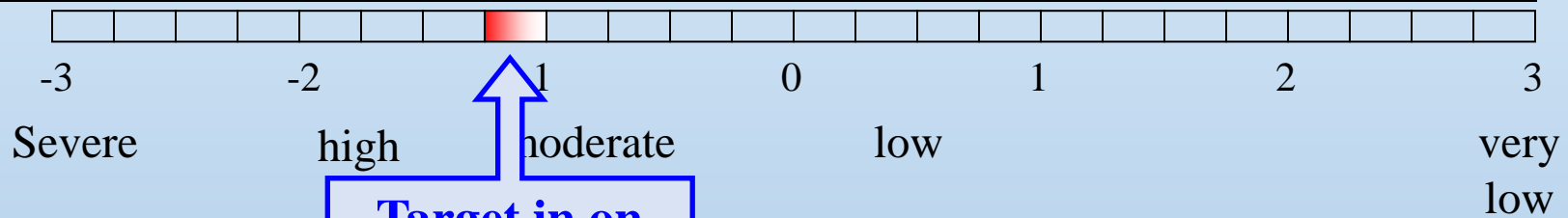
Item Bank
(Validated & IRT-Calibrated Depression Items)



Item Bank
(Validated & IRT-Calibrated Depression Items)



**Item Bank
(Validated & IRT-Calibrated Depression Items)**



**Target in on
emotional
distress score**

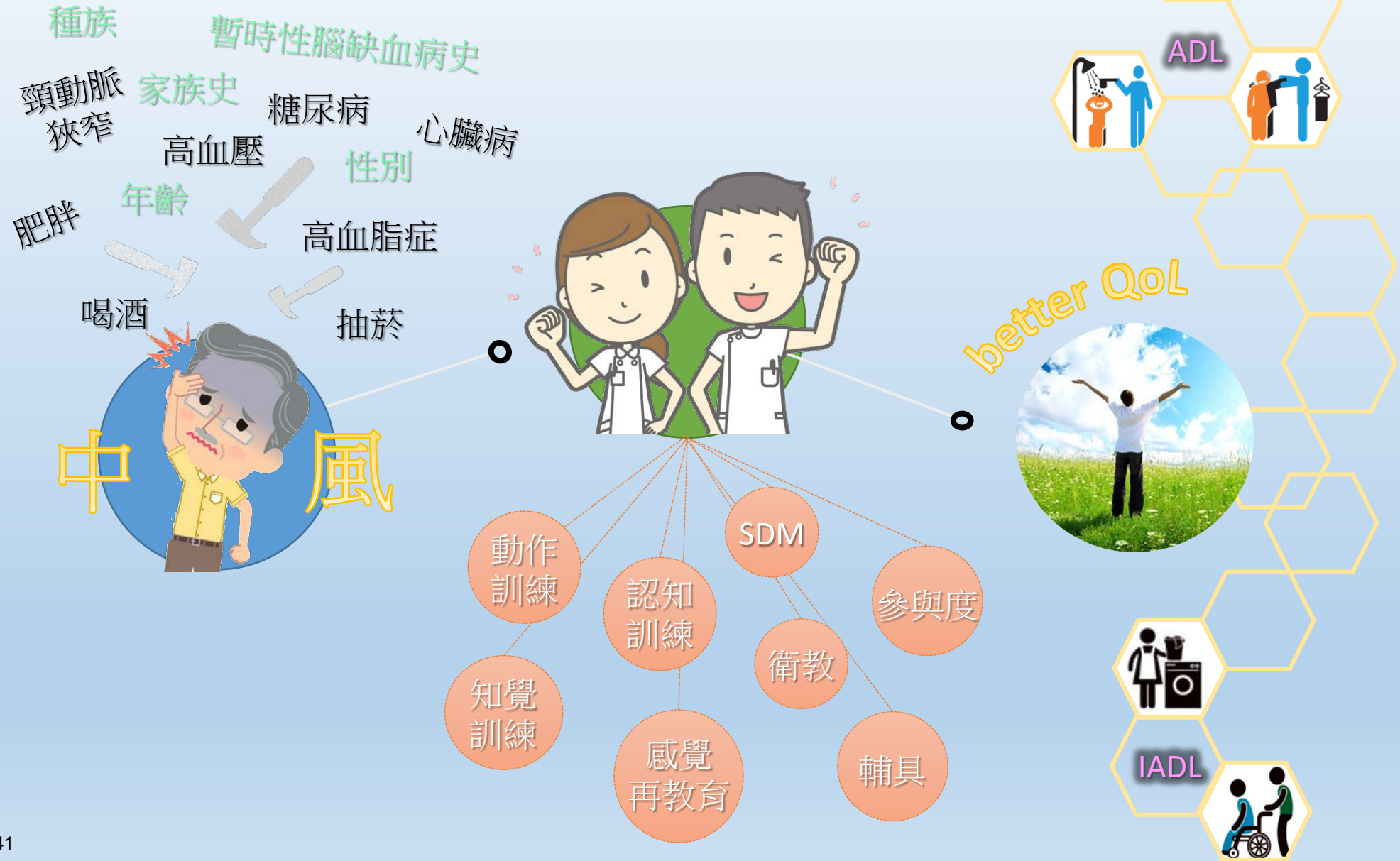
**Item Bank
(Validated & IRT-Calibrated Depression Items)**

<https://www.assessmentcenter.net/ac1/Default.aspx?SID=B5701A71-6247-4321-ACD7-55DDC7894315>

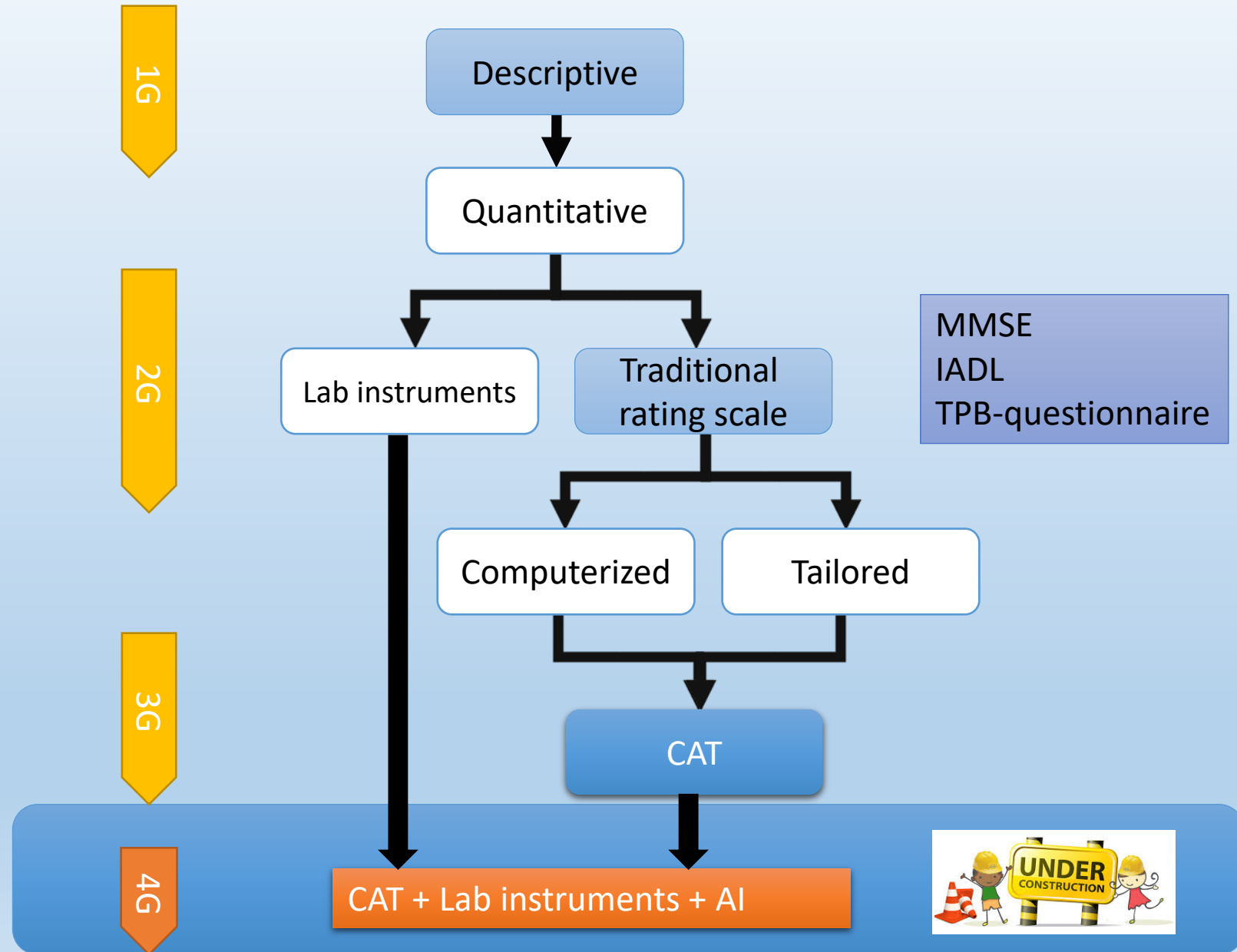
8+ CATs 叫好不叫座

1. Chen CT, Chen YL, Lin YC, Hsieh CL, Tzeng JY, Chen KL. Item-saving assessment of self-care performance in children with developmental disabilities: A prospective caregiver-report computerized adaptive test. *PLoS One*. 2018;13:e0193936.
2. Hou WH, Shih CL, Chou YT, Sheu CF, Lin JH, Wu HC, Hsueh IP, Hsieh CL. Development of a computerized adaptive testing system of the Fugl-Meyer motor scale in stroke patients. *Arch Phys Med Rehabil*. 2012;93:1014-1020.
3. Hsueh IP, Chen JH, Wang CH, Chen CT, Sheu CF, Wang WC, Hou WH, Hsieh CL. Development of a computerized adaptive test for assessing balance function in patients with stroke. *Phys Ther*. 2010;90:1336-1344.
4. Hsueh IP, Chen JH, Wang CH, Hou WH, Hsieh CL. Development of a computerized adaptive test for assessing activities of daily living in outpatients with stroke. *Phys Ther*. 2013;93:681-693.
5. Huang CY, Tung LC, Chou YT, Chou W, Chen KL, Hsieh CL. Improving the utility of the fine motor skills subscale of the comprehensive developmental inventory for infants and toddlers: A computerized adaptive test. *Disabil Rehabil*. 2017:1-7.
6. Huang CY, Tung LC, Chou YT, Wu HM, Chen KL, Hsieh CL. Development of a computerized adaptive test of children's gross motor skills. *Arch Phys Med Rehabil*. 2018;99:512-520.
7. Lee SC, Huang YJ, Lin GH, Chou YT, Chou CY, Hsieh CL. Development of a social functioning assessment using computerized adaptive testing for patients with stroke. *Arch Phys Med Rehabil*. 2018;99:306-313.
8. Lin GH, Huang YJ, Lee SC, Huang SL, Hsieh CL. Development of a computerized adaptive testing system of the functional assessment of stroke. *Arch Phys Med Rehabil*. 2018;99:676-683.

中風復能架構圖



Revolution of Clinical measures



後續的路

教學

- 翻轉教學
- 多交流/回饋（小考/每堂課程問題與回應）

研究

- 開拓研究議題
 - 醫病溝通評估與介入
 - 以AI發展評估工具 & 後續應用

Questions to be addressed

- 學術研究若有迷人之處？就你所知有那些？
- 週末還來上班，若有迷人/幸福之處，那會是什麼？
- Clinicians VS Researchers (or policy makers) 誰需要較精準（低誤差）評估工具/問卷？ Why?
- 問卷（評量受測者主觀概念，如生活品質或 symptoms）具有學術/臨床價值？ Why?
- 你滿意你常用的評估工具/問卷嗎？不滿意之處有那些？
- 問卷/評估如何達成又快又準？

結語



找好環境/改善環境

建構團隊/加入團隊/培育人才

提升能力/高手切磋

Q & A

大綱

- 職業生涯前中後期
 - Why 研究所
 - Why NTU
 - 教學/臨床/研究
- 評估工具/問卷有何用途？
 - Group level vs individual level
 - Policy vs clinical care
 - Model construction, examination, and revision vs clinical utility
- 我使用的（臨床/研究）評估工具/問卷有效/可靠嗎？
 - 日常功能/主觀感受
- 我改良/發展的工具為何國內沒有人要用？

簡介

- 職業生涯前中後期
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你們想點什麼菜

我為何念碩博班

我為何選NTU上班//為何能進來

一路走來做什麼研究？有什麼專長（可跟各位合作）（轉折：方法/主題）

後續做什麼研究？（轉折：方法/主題）

一路走來，持續投入研究，why? 究竟有何迷人之處？怎會喜歡研究

如何培養研究功力/發表論文

如何建構團隊

我如何遇到貴人（長期或短暫）

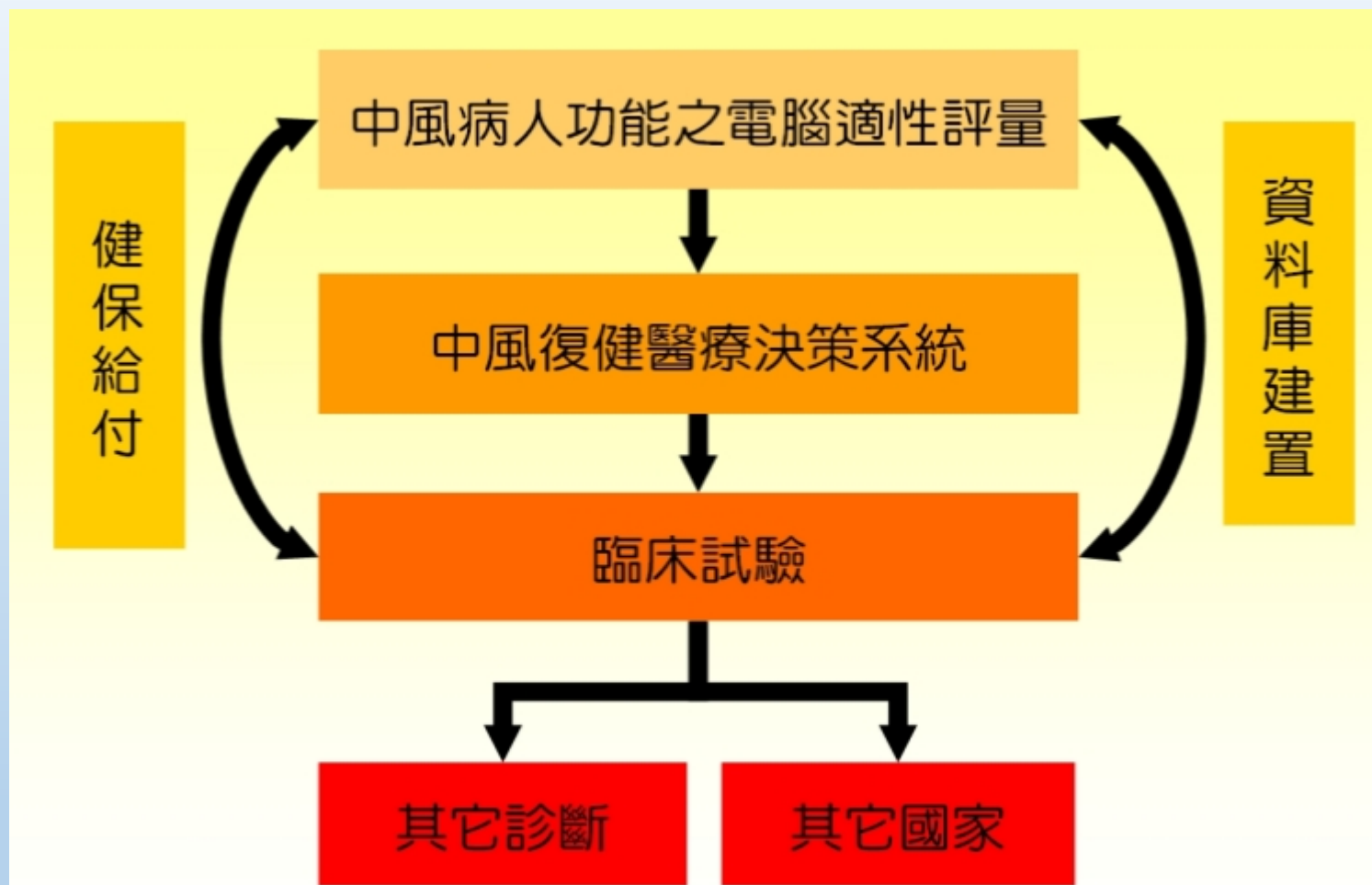
我如何遇到爛人

我遇過那些重挫/重新振作

我有何缺點？如何改善或與之共存

重挫

- 退稿
- 沒研究經費
- 原定研究路徑破滅
- 被學生臭罵
- 跟同儕理念不同



圖一：中風病人復健治療卓越模式之建構與未來發展