
Yu-Hsuan Lin (林煜軒), M.D. Ph.D.

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Appointment

Associate Investigator and Attending Physician, Institute of Population Health Sciences, National Health Research Institutes, Taiwan	2021-present
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Education

Doctor of Philosophy (Ph.D.), Institute of Brain Science, National Yang-Ming University, Taiwan	2013-2015
College of Medicine, Chang-Gung University, Taiwan	2001-2008

Professional Experience

Adjunct Visiting Staff, Department of Psychiatry, National Taiwan University Hospital, Taiwan	2017-present
Assistant Professor, Department of Psychiatry, College of Medicine, National Taiwan University, Taiwan	2017-present
Assistant Professor, Institute of Health Behaviors and Community Sciences, College of Public Health, National Taiwan University, Taiwan	2017-present
Assistant Investigator/Attending Physician, Institute of Population Health Sciences, National Health Research Institutes, Taiwan	2017-2021
Attending Physician, Department of Psychiatry, National Taiwan University Hospital	2016-2017
Product Physician, Medical Affairs Division, Pfizer Taiwan	2013-2016
Chief Resident and Resident physician, Department of Psychiatry, National Taiwan University Hospital	2009-2013

Licensure and Certification

Taiwan Sleep Medicine Board (No. 226)
Taiwan Psychiatry Board (No. 1492)
Taiwan Medical License Registration (No. 42609)

Awards and Honor

2020 Recipient of the Covid-19 Early publication Award	2020
“Go The Extreme Milestone” award, Pfizer Taiwan	2014, 2015
Paul Janssen Research Award, Taiwan	2013, 2016, 2018
Two best posters and travel award in the World Congress of Biological Psychiatry, Kyoto	2013
Model Student of Chang-Gung University	2008
Excellent Paper Award, 5th Annual Meeting of Taiwan Society of Sleep Medicine	2007
The Foundation of Taiwan Medical Development Awards for Outstanding Writings	2007

Research & Clinical Interests

Mobile health device, Cyber-psychology, Bio-signal analysis, Addiction medicine, Sleep medicine, Clinical trial

Professional Societies Memberships

Taiwan Association for Prevention and Treatment of Internet Addiction, supervisor	2014-
Taiwan Society of Biological Psychiatry and Neuropsychopharmacology	2013-
Taiwanese Society of Psychiatry	2009-
Taiwan Young Psychiatrist Organization	2008-
American Academy of Sleep Medicine	2006-
Taiwan Society of Sleep Medicine	2006-

International Journal Review

Computer Methods and Programs in Biomedicine
Cyberpsychology, Behavior, and Social Networking
Journal of Affective Disorders
Journal of Psychiatric Research
Pervasive and mobile computing
PLoS ONE
Psychiatry Research
Substance Abuse
Women & Health
International Journal of Environmental Research and Public Health

Publications (*corresponding author; †co-first author)

1. Wu YL, Lin SH, **Lin YH***. Two-dimensional taxonomy of internet addiction and assessment of smartphone addiction with diagnostic criteria and mobile apps. *Journal of Behavioral Addictions*. 2020; <https://doi.org/10.1556/2006.2020.00074>.
2. **Lin YH***, Chen SY, Lin PH, Tai AS, Pan YC, Hsieh CE, Lin SH. Survival Analysis for Assessing User Retention of a Mobile Application. *JMIR mHealth and uHealth*. 2020;8(11):e16309.
3. **Lin YH***, Chiang TW, Lin YL. Increased Internet Searches for Insomnia as an Indicator of Global Mental Health During the COVID-19 Pandemic: Multinational Longitudinal Study. *J Med Internet Res*. 2020; 22(9):e22181. (5Y IF=6.204, Health Care Sciences & Services 5/102=4.9%)
4. Pan YC, Chiu YC, **Lin YH***. Systematic Review and Meta-Analysis of Epidemiology of Internet Addiction. *Neurosci Biobehav Rev*. 2020; 118: 612-622. (5Y IF=9.526, Behavioral Sciences 3/52=5.77%)
5. **Lin YH***, Liu CH, Chiu YC. Google searches for the keywords of “wash hands” predict the speed of national spread of COVID-19 outbreak among 21 countries. *Brain, Behavior, and Immunity*. 2020; 87: 30–32. (5Y IF=6.934, Psychiatry 14/155=9.03%)
6. Chiang TW, Chen SY, Pan YC, **Lin YH***. Automatic Workhours Recorder for Medical Staff: Development of Staff Hours, a Mobile Application. *JMIR Mhealth Uhealth*. 2020; 8(2):e16063. (5Y IF=5.323, Health Care Sciences & Services 11/102=10.78%)
7. Chien JW, Chen CY, Lin SH, Lin SW, **Lin YH***. Cardiac Autonomic Modulation during On-call Duty under Working Hours Restriction. *Int J Environ Res Public Health*. 2020; 17(3), 1118; <https://doi.org/10.3390/ijerph17031118>. (5Y IF=3.127, Public, Environmental & Occupational health 32/170=18.82%)
8. Lin C, Wong BY, Lo MT, Chiu YC, **Lin YH***. Development of an addiction index and delineation 15-year trends of illicit drugs from a nationwide drug enhancement database. *J Psychiatr Res*. 2020; 120:131-136. (5Y IF=4.360, Psychiatry 28/14=19.86%)
9. 洪研竣、吳秀英、**林煜軒*** (2020)。青少年網路成癮。台灣衛誌，39 (6)。DOI:10.6288/TJPH.202012_39(6).PF06.
10. **Lin YH***, Wong BY, Pan YC, Chiu YC, Lee YH. Validation of the Mobile App-Recorded Circadian Rhythm by a Digital Footprint. *JMIR Mhealth Uhealth*. 2019;7(5):e13421. (5Y IF=5.323, Health Care Sciences & Services 11/102=10.78%)
11. **Lin YH***, Wong BY, Lin SH, Chiu YC, Pan YC, Lee YH. Development of a mobile application (App) to delineate "digital chronotype" and the effects of delayed

- chronotype by bedtime smartphone use. *J Psychiatr Res.* 2019; 110:9-15. (5Y IF=4.360, Psychiatry 28/14=19.86%)
12. **Lin YH**, Chen HY, Tsai SL, Chang LR, Chen PC. A prospective study of the factors associated with life quality during medical internship. *PLoS ONE.* 2019; 14(8): e0220608. (5Y IF=3.337, Multidisciplinary Sciences 27/71=38.03%)
 13. Pan YC, Lin HH, Chiu YC, Lin SH, **Lin YH***. Temporal Stability of Smartphone Use Data: Determining Fundamental Time Unit and Independent Cycle. *JMIR Mhealth Uhealth.* 2019; 7(3):e12171. (5Y IF=5.323, Health Care Sciences & Services 11/102=10.78%)
 14. Pan YC, Chiu YC, **Lin YH***. Development of the Problematic Mobile Gaming Questionnaire (PMGQ) and Prevalence of Mobile Gaming Addiction among Adolescents in Taiwan. *Cyberpsychol Behav Soc Netw.* 2019; 22(10):662-669. (5Y IF=3.701, Psychology, social 24/64=37.5%)
 15. Chiu YC, Pan YC, **Lin YH***. Chinese adaptation of the Ten-Item Internet Gaming Disorder Test and prevalence estimate of Internet gaming disorder among adolescents in Taiwan. *J Behav Addict.* 2018; 7(3):719-726. (5Y IF=5.758. Psychiatry 22/155=14.19%)
 16. Chiu YC, **Lin YH***. Methodological and Ethical Criticisms of the China Global Burden of Disease Studies. *J Formos Med Assoc.* 2020; 119:1-2. (5Y IF=2.733, Medicine, General & Internal 42/165=25.45%)
 17. Chiang TW, Chen SY, **Lin YH***. Interpretation of Daily Human Behavior via Smartphone Digital Footprints: Examples from Smartphone Use, Sleeping Patterns, and Working Hours. *Survey Research-Method and Application.* 2020; 45:43-71. (TSSCI)
 18. **Lin YH**, Lin PH, Chiang CL, Lee YH, Yang CC, Kuo TB. Incorporation of mobile application (App) measures into the diagnosis of smartphone addiction. *Journal of Clinical Psychiatry.* 2017; 78(7):866 – 872.
 19. **Lin YH**, Pan YC, Lin SH, Chen SH. Development of the short-form and screening cut-off point of the smartphone addiction inventory. *International Journal of Methods in Psychiatric Research.* . 2017; 26:e1525.
 20. **Lin YH**, Lin YC, Lin SH, Lee YH, Lin PH, Chiang CL, Chang LR, Yang CC, Kuo TB. To use or not to use? Compulsive behavior and its role in smartphone addiction. *Translational Psychiatry.* 2017; 7, e1030.
 21. **Lin YH**, Chiang CL, Lin PH, Chang LR, Ko CH, Lee YH, Lin SH. Proposed Diagnostic Criteria for Smartphone Addiction. *PLoS One.* 2016 Nov 15;11(11):e0163010.
 22. Liu CH, Lin SH, Pan YC, **Lin YH***. Smartphone gaming and frequent use pattern associated with smartphone addiction. *Medicine (Baltimore).* 2016;95(28):e4068.

23. Huang WL, Chen TT, Chen IM, Chang LR, **Lin YH**, Liao SC, Gau SS. Harm avoidance and persistence are associated with somatoform disorder psychopathology: A study in Taiwan. *Journal of Affective Disorders*. 2016;196:83–86.
24. Lin YC, **Lin YH**, Lo MT, Peng CK, Huang NE, Yang CC, Kuo TB. Novel application of multi dynamic trend analysis as a sensitive tool for detecting the effects of aging and congestive heart failure on heart rate variability. *Chaos*. 2016;26(2):023109.
25. Liu CH, Tang WR, Weng WH, **Lin YH**, Chen CY. The process of coping with stress by Taiwanese medical interns: a qualitative study. *BMC Medical Education*. 2016; 16(1):10.
26. **Lin YH**, Lin YC, Lee YH, Lin PH, Lin SH, Chang LR, Tseng HW, Yen LY, Yang CC, Kuo TB. Time distortion associated with smartphone addiction: Identifying smartphone addiction via a mobile application (App). *Journal of Psychiatric Research*. 2015; 65:139-145.
27. Chen CY, Lin SH, Li P, Huang WL, **Lin YH***. The role of the harm avoidance personality in depression and anxiety during the medical internship. *Medicine*. 2015;94(2):e389.
28. Chen CP, Wu CC, Chang LR, **Lin YH***. Possible association between phantom vibration syndrome and occupational burnout. *Neuropsychiatric Disease and Treatment*. 2014;10 2307–2314.
29. **Lin YH**, Chang LR, Lee YH, Tseng HW, Kuo TBJ, Chen SH. Development and Validation of the Smartphone Addiction Inventory (SPAI). *PLoS ONE*. 2014; 9(6):e98312.
30. Huang WL, Chang LR, Chen YZ, Wu Chang HC, Hsieh MH, Lin CH, **Lin YH***. Tridimensional personality of male heroin users treated with methadone in Taiwan. *Comprehensive Psychiatry*. 2014; 55(5):1220-6.
31. **Lin YH**, Gau SS. Association between morningness-eveningness and the severity of compulsive Internet use: the moderating role of gender and parenting style. *Sleep Medicine*. 2013; 14:1398–1404.
32. Chiang CL, **Lin YH**, Hsieh MH. Olanzapine-induced hyponatremia in a patient with autism. *Journal of Child and Adolescent Psychopharmacology*. 2013;23(10):699-700.
33. **Lin YH**, Chen CY, Li P, Lin SH. A dimensional approach to the phantom vibration and ringing syndrome during medical internship. *Journal of Psychiatric Research*. 2013;47(9):1254-8.
34. **Lin YH**, Lin SH, Li P, Huang WL, Chen CY. Prevalent hallucinations during medical internships: phantom vibration and ringing syndromes. *PLoS ONE*.

2013;8(6):e65152.

35. **Lin YH**, Ho YC, Lin SH, Yeh YH, Liu CY, Kuo TB, Yang CC, Yang AC. On-call duty effects on sleep-state physiological stability in male medical interns. *PLoS ONE*. 2013; 8(6): e65072.
36. **Lin YH**, Chen CY, Lin SH, Liu CH, Weng WH, Kuo TB, Yang CC. Gender differences in cardiac autonomic modulation during medical internship. *Psychophysiology* 2013; 50(6):521-7.
37. Chang LR, **Lin YH**, Wu Chang HC, Chen YZ, Huang WL, Liu CM, Liu CC, Hwu HG. Psychopathology, rehospitalization, and quality of life among patients with schizophrenia under home care case management in Taiwan. *Journal of the Formosan Medical Association*. 2013; 112(4):208-15.
38. Huang WL, Chang LR, Kuo TB, **Lin YH**, Chen YZ, Kuo TB, Yang CC. Gender differences in personality and heart rate variability. *Psychiatry Research*. 2013; 209(3):652-7.
39. Huang WL, Chang LR, Kuo TB, **Lin YH**, Chen YZ, Yang CC. Impact of Antipsychotics and Anticholinergics on Autonomic Modulation in Patients with Schizophrenia. *Journal of Clinical Psychopharmacology* 2013; 33(2):170-7.
40. Chen YZ, Huang WL, Shan JC, **Lin YH**, Wu Chang HC, Chang LR. Self-reported psychopathology and health-related quality of life in heroin users treated with methadone. *Neuropsychiatric Disease and Treatment*. 2013;9 41-48.
41. Liou YT, Huang JL, Ou LS, **Lin YH**, Yu KH, Luo SF, Ho HH, Liou LB, Yeh KW. Comparison of cryoglobulinemia in children and adults. *Journal of Microbiology, Immunology and Infection*. 2013; 46(1):59-64.
42. **Lin YH**, Huang E, Chien YL. Bilateral pallidal necrosis and cardiac toxicity in a patient with venlafaxine and bupropion overdose. *American Journal of Psychiatry*. 2012; 169:993-994.
43. Huang WL, **Lin YH**, Kuo TB, Chang LR, Chen YZ, Yang CC. Methadone-mediated autonomic functioning of male patients with heroin dependence: the influence of borderline personality pattern. *PLoS ONE*. 2012; 7:e37464.
44. Chang LR, **Lin YH†**, Kuo TB, Ho YC, Chen SH, Wu-Chang HC, Liu CM, Yang CC. Cardiac autonomic modulation during methadone therapy among heroin users: A pilot study. *Progress in Neuro-Psychopharmacology & Biological Psychiatry* 2012; 37(1):188-93.
45. **Lin YH**, Chien YL. Valproic acid-related anticonvulsant hypersensitivity syndrome and subsequent olanzapine-related neutropenia and thrombocytopenia: A case report. *Journal of Clinical Psychopharmacology*. 2012; 32(1):132-3.
46. Chang LR, Wu-Chang HC, **Lin YH.*** Quetiapine and valproate associated neutropenia and thrombocytopenia following lamotrigine-induced Steven-

- Johnson syndrome. *Journal of Clinical Psychopharmacology*. 2012;32(1):133-4
47. **Lin YH**, Kuo TB, Ho YC, Lin SH, Liu CY, Yang CC. Physiological and psychological impacts on male medical interns of on-call duty. *Stress* 2012; 15(1):21-30.
 48. Chang LR, **Lin YH**, Kuo TB, Wu Chang HC, Liu CM, Liu CC, Hwu HG, Yang CC. Autonomic modulation and health-related quality of life among schizophrenic patients treated with non-intensive case management. *PLoS One* 2011; 6(11):e26378.
 49. Huang YS, **Lin YH**, Guilleminault C. Polysomnography in Kleine-Levin syndrome. *Neurology* 2008; 70:795–801.

Book Chapter

1. **Lin YH**, Lin SH, Yang CC, Kuo TB. Psychopathology of everyday life in the 21st century: smartphone addiction. In Montag C, Reuter M (ed). *Internet Addiction - Neuroscientific Approaches and Therapeutical Interventions*. Springer, Switzerland, 2016.
2. Wu CY, Huang WL, **Lin YH**, Yang CC. Features of the tridimensional personality questionnaire associated with heroin users. In Preedy VR (ed). *Neurobiology of Drug Addictions and Substance Misuse*. Elsevier, 2016.

Translation

1. Young KS & Abreu CN. (2013) Internet Addiction: A Handbook and Guide to Evaluation and Treatment. (**Lin YH**. et al., Trans.). Taipei: Psychological Publishing (Original work published 2011)

Patent

1. Lin, Y.H. Method for Automatically Recording Circadian Rhythm of User via Portable Device and Portable Device Thereof (TWI708588B, issue date 2020/11/1).
2. Lin, Y.H. Method for evaluating usage of an application by a user. 10,642,708, USA (2020)
3. Lin, Y.H. Method for providing a feedback regarding usage of an application by a user. I588744, R.O.C (2017)
4. Lin, Y.H. Method for evaluating usage of an application by a user. I576763, R.O.C (2017)

Personal Information

Yu-Hsuan Lin is a psychiatrist and mobile app-developer. His laboratory studies digital health and has developed three apps “know addiction”, “Rhythm” and “Staff Hours” which automatically respectively record users’ time spent on smartphone, long-term sleep patterns, and work hours.

Dr. Lin studied medicine and earned his PhD from the Institute of Brain Science

at National Yang-Ming University. After becoming certified as a psychiatrist, he first worked as a medical advisor at Pfizer. In 2011, Dr. Lin began the first project using smartphone data to study behavioral patterns given smartphones' widespread adoption and ownership. Now he holds multiple research, clinical, and teaching positions at the National Health Research Institutes and at National Taiwan University Hospital.

Dr. Lin has published 45 articles in international scientific journals (H index=19), such as *Neuroscience and Biobehavioral Reviews*, *Journal of Medical Internet Research* and *Journal of Behavioral Addictions*. Dr. Lin wrote the chapter "smartphone addiction" in the latest edition of the Internet Addiction textbook edited by Christian Montag. Dr. Lin is also a board-certified physician in addiction medicine and sleep medicine.

Dr. Lin's research featured prompt response to important social issues by analyzing data from smartphone and open-accessed sources. His recent research used Google searches on handwashing to predict COVID-19 rates. This study published in the journal *Brain, Behavior, and Immunity* was reported by international media, the *Reuters*, and received the Covid-19 Early Publication Award at National Taiwan University Hospital.

Since Dr. Lin was a medical student, he had been awarded several academic awards, such as "Excellent Paper Award" of Taiwan Society of Sleep Medicine and the Foundation of Taiwan Medical Development Awards. He was awarded the best poster in the World Congress of Biological Psychiatry in Kyoto, and the Paul Janssen Research Award in 2013, 2015, 2018.