



List of Publications

Accuracy of PurePulse photoplethysmography technology of Fitbit Charge 2 for assessment of heart rate during sleep

Chronobiology International, Published online: 16 Apr 2019

Shahab Haghayegh, Sepideh Khoshnevis, Michael H. Smolensky & Kenneth R. Diller
University of Texas at Austin

Actigraphic sleep tracking and wearables: Historical context scientific applications and guidelines, limitations, and considerations for commercial sleep devices

Sleep and Health, P.147, 2019

Michael Grandner and Mary Rosenberger
University of Arizona
Stanford University

Differences In Sleep Duration And Quality Between Weekdays And Weekends In Japanese Adults

Associated Professional Sleep Societies (APSS), 2019, 33rd Annual Meeting, Sleep (42)

Seiko Miyata Kunihiro Iwamoto Motoo Ando Yuki Ito Aiko Noda Norio Ozaki
Nagoya University Graduate School of Medicine

Associations between chemosensory function, sweet taste preference, and the previous night's sleep in non-obese males

Food Quality and Preference, Volume 75, July 2019, Pages 105-112

Edward J. Szczygiel, Sungeun Cho, Margaret K. Snyder, Robin M. Tucker
Michigan State University

Do Not Disturb, Shadyside Hospital Foundation grants lead to first-ever "sleep protection" breakthrough

The VOICE of UPMC Shadyside Winter 2017 (available online 2019)

D'Antonio I. and Pituch D.W.

University of Pittsburgh Medical Center (UPMC)

Validity of survey measures of sleep duration, efficiency, and timing

Measurement and Analysis of Sleep and Circadian Dimensions Symposium

Associated Professional Sleep Societies (APSS), 2019, 33rd Annual Meeting, Sleep (42)

Dietch, J.R. and Taylor, D.J.

University of North Texas

Increased Hunger, Food Cravings, Food Reward, and Portion Size Selection after Sleep Curtailment in Women Without Obesity

Nutrients Vol. 11(3), 663, 2019

Chia-Lun Yang, Jerry Schnepf and Robin M. Tucker

Michigan State University

Bowling Green State University

Preliminary Results: Sleep Curtailment Results in Increased Portion Size Selection

Food & Nutrition Conference & Expo (FNCE), Washington D.C., Oct. 20-23, 2018

Chia-Lun, Yang, Christina Cobetto, Yusi Hu, Jerry Schnepf, and Robin Tucker

Michigan State University

Bowling Green State University



精神疾患を対象とした新規睡眠評価機器（Zmachine）のPSGを用いた妥当性検証 Validation Using the PSG of New Sleep Evaluation Device Intended for Mental Disease (Zmachine)

Japanese Society of Sleep Research 43rd Annual Meeting, Sapporo, Japan, July 2018

Iwamoto, Kunihiro

Nagoya University

A Critical Review of Consumer Wearables, Mobile Applications and Equipment for Providing Biofeedback Monitoring Stress and Sleep in Physically Active Populations

Frontiers in Physiology, June 2018 | Volume 9 | Article 743

Peake, JM, Kerr, G, and Sullivan JP

Queensland University

Effect of Night Float on Anesthesiology Resident Sleep Patterns: An Observational Study

International Anesthesia Research Society (IARS), 2018 Annual Meeting

Dunn L., Kleiman A., Forkin K., Quigg M., Bechtel A., Huffmyer J. and Nemergut E.

University of Virginia

Daily Covariation Of Stress and EEG-Determined Sleep

Associated Professional Sleep Societies (APSS), 2018, 32st Annual Meeting, Sleep (41)

Veeramachaneni K, Dietch JR, Slavish DC, Taylor DJ

University of North Texas

Daily Positive Affect Predicts EEG-Determined REM Duration

Associated Professional Sleep Societies (APSS), 2018, 32st Annual Meeting, Sleep (41)

Hale BS, Messman B, Brown A, Banzuelo H, Nguyen T, Slavish D, Taylor DJ, Dietch JR

University of North Texas

Characterization of the Relationships Between Sleep Duration, Quality, Architecture, and Chemosensory Function in Nonobese Females

Chemical Senses, 2018

Advanced Access Publication Date: 7 March 2018

Szczygiel, EJ., Cho, S., Tucker, RM.

Michigan State University

Sleep Devices: Wearables and Nearables, Informational and Interventional, Consumer and Clinical

Metabolism: clinical and experimental, 2018

Advanced Access Publication Date: 8 December 2017

Bianchi, MT.

Harvard Medical School/Massachusetts General Hospital

Landscape Analysis of Biometric Monitoring Devices (BMDs) Utilized in Assessing Cognition, Sleep and Mobility in Alzheimer's Disease and Other Age-Related Neurological Diseases

Alzheimer's Association International Conference (AAIC), 2017

Kern V., Rhodes J., Karlin D., Fitzer-Attas C., Ropacki M., et al

Critical Path Institute, Biogen, Pfizer, CHDI Foundation, Loma Linda University, et al



Where is your (mind)fulness? It matters for sleep.

Association for Psychological Science (APS), 2017, 29th Annual Meeting
Lipsky, J., Acero, P., Cho, L., Kreidler, P., Zhu, Z., Britton, W.
Brown University

Estimation of Sleep Stages using Cardiac and Accelerometer Data from a Wrist-Worn Device

Associated Professional Sleep Societies (APSS), 2017, 31st Annual Meeting, Sleep (40)
Beattie, Z., Pantelopoulos, A., Ghoreyshi, A., Oyang, Y., Statan, A., Heneghan, C.
Fitbit, Inc.

Advances In the Management of Chronic Insomnia

British Medical Journal (BMJ), 2016;353:i2123
Kay-Stacey M. and Attarian H.
Northwestern University

Current research impacting long-duration space flight sleep and fatigue

American Osteopathic Association (AOA), 2016, 122nd Annual Meeting
Moomaw, R.
NASA - Johnson Space Center

Twenty-four Hours of Sleep, Sedentary Behavior, and Physical Activity with Nine Wearable Devices

Medicine & Science in Sports & Exercise, 2016, Vol. 48(3), 457–465
Rosenberger, ME.¹, Buman, MP.², Haskell, WL.¹, McConnell, MV.¹, Carstensen, LL.¹
¹Stanford University
²Arizona State University

Evaluation of an Automated Single-Channel Sleep Staging Algorithm

Nature and Science of Sleep, 2015, Vol. 7, 101-111
Wang, Y., Loparo, K., Kelly, M., Kaplan, R.

Performance Evaluation of an Automated Single-Channel Sleep Staging Algorithm

Associated Professional Sleep Societies (APSS), 2015, 29th Annual Meeting, Sleep (38)
Wang, Y., Loparo, K., Kaplan, R.

A Pilot Study: Delirium in the Intensive Care Unit: Utilizing the Zmachine Sleep Monitor for Assessment

UCLA Department of Nursing, 14th Annual Research and Evidence-Based Practice Conference, 2015
Also appears on HEHD/SOE Research Forum, Clemson University
Whitcomb, J. J., Edwards, S., Ethridge, E., Fogle, S.
Clemson University

Performance Evaluation of an Automated Single Channel Sleep-Wake Detection Algorithm

Nature and Science of Sleep, 2014, Vol. 6, 113-122
Kaplan, R., Wang, Y., Loparo, K., Kelly, M., Bootzin, R.

Classification of Stage-1 in a Single Channel Wake-Sleep Detection System

Associated Professional Sleep Societies (APSS), 2009, 23rd Annual Meeting, Sleep (32)
Kaplan, R. F., Wang, Y., Bootzin, R.R., Loparo, K.A.



A Single Channel Wake-Sleep Detection System

Associated Professional Sleep Societies (APSS), 2008, 22nd Annual Meeting, Sleep (31)
Wang, Y., Kaplan, R. F., Bootzin, R. R., and Loparo, K. A.

Evaluation of an automated system for in-home behavioral treatment of chronic insomnia: Part III

Associated Professional Sleep Societies (APSS), 2007, 21st Annual Meeting, Sleep (30)
Kaplan, R. F., Wang, Y., Bootzin, R.R., Loparo, K.A.

Evaluation of an automated system for in-home behavioral treatment of chronic insomnia: Part II

Associated Professional Sleep Societies (APSS), 2006, 20th Annual Meeting, Sleep (29)
Kaplan, R. F., Wang, Y., Bootzin, R.R., Loparo, K.A.

Evaluation of an automated system for in-home behavioral treatment of chronic insomnia: Part I

Associated Professional Sleep Societies (APSS), 2006, 20th Annual Meeting, Sleep (29)
Kaplan, R. F., Wang, Y., Bootzin, R.R., Loparo, K.A.

Very high frequency energy (Kappa) in human surface EEG: Correlation with behavioral state

Associated Professional Sleep Societies (APSS), 2000, 14th Annual Meeting, Sleep (23)
Richardson, G.S., Kaplan, R.F., Loparo, K.A., Johnson, S.E., Roth, T.

Enhancing fatigue assessment in aviation settings: Correlation of EEG-based DDAS with performance

Aviation, Space, and Environmental Medicine, 1998, 69(3)
Kaplan, R.F., Loparo, K. A., Nesthus, T.E., Schroeder, D.J.

Four-choice serial reaction time and visual search performance during 34 hr of sleep loss

Aviation, Space, and Environmental Medicine, 1998, 69(3)
Nesthus, T.E., Scarborough, A.L., Schroeder, D.J., Kaplan, R.F., Loparo, K.A. , and Thorne, D.

Subjective sleepiness ratings and body temperature during 34 hours of sleep deprivation

Aviation, Space, and Environmental Medicine, 1998, 69(3)
Schroeder, D.J., Nesthus, T.E., Scarborough, A., Thompson, J., Kaplan, R.F., Loparo, K.A.