Thomas Svensson

2　Academic thesis

1) Staffini A, **Svensson T**, Chung UI, Svensson AK. (Peer reviewed)
A Disentangled VAE-BiLSTM Model for Heart Rate Anomaly Detection. Bioengineering. 2023;10(6),683. (Impact factor: 4.6)
Available from: https://doi.org/10.3390/bioengineering10060683

2) **Svensson T**, Madhawa K, Hoang NT, Chung UI, Svensson AK
Validity and reliability of the Oura Ring Generation 3 (Gen3) with Oura sleep staging algorithm 2.0 (OSSA 2.0) when compared to multi-night ambulatory polysomnography: A validation study of 96 participants and 421,045 epochs. Sleep Medicine. 2024;115:251-63. (Impact factor: 4.8)
Available from: https://doi.org/10.1016/j.sleep.2024.01.020

3) **Svensson T**, Madhawa K, Hoang NT, Chung UI, Svensson AK
Response to comment on "Validity and reliability of the Oura Ring Generation 3 (Gen3) with Oura Sleep Staging Algorithm 2.0 (OSSA 2.0) when compared to multi-night ambulatory polysomnography: A validation study of 96 participants and 421,045 epochs". Sleep Med. 2024.
Available from: https://authors.elsevier.com/a/1ipiS4y2Nr8jjc

4) **Svensson T**, Svensson AK, Kitlinski M, Engström G, Nilsson J, Orho-Melander M, Nilsson P, Melander O.
Very short sleep duration reveals a proteomic fingerprint that is selectively associated with incident diabetes mellitus but not with incident coronary heart disease: a cohort study. Under review in *BMC Medicine*

5) Yulong R, Kojima Y, Tsuji K, **Svensson T**, Suto A, Ochi E
Longitudinal changes in physical activity of early-stage breast cancer survivors in Japan during and after the COVID-19 lockdown. Under review in *Journal of Exercise Science & Fitness*

6) Ishikawa Y, **Svensson T**, Madhawa K, Hoang NT, Chung UI, Svensson AK
Association between sedentary behavior and sleep quality among urban white-collar workers: a multilevel analysis using ecological momentary assessment and wearable device data. In submission

7) Sjöland O, **Svensson T**, Madhawa K, Hoang NT, Chung UI, Svensson AK
Associations of subjective sleep quality with wearable device-derived resting heart rate during REM sleep and non-REM sleep in a cohort of Japanese office workers. In submission

3　Other Authorship

1) Svensson AK, Svensson T, Melander O.
Conference Report. Journal of Internal Medicine Key 18 Symposium: “Longevity and healthy ageing: What can we learn from Blue Zones?”

Available from Journal of Internal Medicine:
https://onlinelibrary.wiley.com/page/journal/13652796/homepage/key_symposia.htm

4　Membership of academic society, academies, and public institutions

1) Member of the Japan Epidemiological Association
2) Member of the Swedish Society of Medicine
3) Member of the Swedish Medical Association
4) Member of the Sleep Research Society
5) Member of the American Academy of Sleep Medicine

5　Regional contributions

1) I was a member of the organizing committee that in May 2023 arranged a symposium in Okinawa sponsored by the Royal Swedish Academy of Sciences and the Journal of Internal Medicine. The topic of the seminar was Longevity and Healthy Ageing. 20 world-renowned international researchers participated in the event which attracted significant media attention and participants ranging from graduate school students, medical professionals, media, and local residents (https://www.okinawa-congre.co.jp/key-symposium2023/).
2) Ongoing social implementation of the Lifestyle Evaluation Algorithm MIRAMED in Kanagawa Prefecture's アプリ「マイＭＥ-ＢＹＯカルテ」で未病を改善
https://www.pref.kanagawa.jp/docs/fz7/cnt/f532715/p991437.html
3) Ongoing social implementation of MIRAMED in the following products for lifestyle improvement:
   (ア) SoftBank affiliate, Healthcare Technology Corporation, applied the MIRAMED technology to a remote specific health guidance service using the "HELPO" health app.
   (イ) Hitachi Systems applied the MIRAMED technology to the "HISYS-MIRAMED" system, allowing the remote specific health guidance service provider companies to use the app.
   (ウ) MEDMIRAI Inc is one of the above providers and in development of MEDMIRAI for regulatory approval as Software as a Medical Device (SaMD).

6　Lectures and Broadcastings

1) Speaker at the Drug Information Association (DIA) symposium in Tokyo on November7th. Title of presentation: Sleep dBM – possibilities and challenges in research
2) News release of Key Symposium
QAB Ryukyu Asahi Broadcasting Corporation
https://www.qab.co.jp/news/20230117159796.html
3) News item related to Key Symposium
Ryukyu Shimpo

https://ryukyushimpo.jp/news/entry-1657269.html

8　Educational activities at KUHS/SHI

1) Course manager, “Introduction to Epidemiology”
2) Course manager, “Oral presentation”
3) Course manager, “Global Health Policy”
4) Main supervisor to one PhD Student
5) Main supervisor to two Masters’ Students
6) Assistant supervisor to one PhD student
7) Assistant supervisor to one Masters’ Student

9　Activities of various committees at KUHS/SHI

1) Serving on the International and Regional Collaboration Committee
2) Serving on the Entrance Examination Committee

10　Grants-in-Aid for Scientific Research (*KAKENHI*) or other grants

1) AMED Moonshot Research and Development Program (FY2022 – FY2025). Moonshot goal: The research and development on Target 2 (Realization of medical networks accessible for anyone from anywhere in the world). Project title: “Bring hospital into home toward controlling inflammation at home”
2) Sawai Pharmaceutical Co. "Development of Sleep application and Dashboard" (FY2022 - FY2024).
3) Oura Ring Oy. Preventive Healthcare and Bioengineering (FY2022-FY2024).

13　Patents and Copyrights

1) Precision sleep evaluation system
2) Healthy Ageing Index

14　Other works

1) Actively reviewing manuscripts for international journals. The following list shows my reviewer activity in chronological order between 2023.04.01 – 2024.03.31 (each entry represents a separate review):
   (ア) Sleep Health (Impact Factor: 4.450)
   (イ) Archives of Gerontology and Geriatrics (Impact Factor: 4.0)
   (ウ) Sleep Epidemiology (Impact Factor: N/A)
   (エ) Sleep Medicine (Impact Factor: 4.842)
   (オ) Sleep Health (Impact Factor: 4.450)
   (カ) JAMA Network Open (Impact Factor: 13.8)
   (キ) Maturitas (Impact Factor: 4.9)
   (ク) Sleep Medicine (Impact Factor: 4.842)
   (ケ) Sleep Medicine (Impact Factor: 4.842)

(コ) Sleep Medicine (Impact Factor: 4.842)