Stanford

Caleb Luke Mayer

Postdoctoral Scholar, Genetics

Curriculum Vitae available Online

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Michigan Ann Arbor (2023)
- BS, Haverford College (2018)

STANFORD ADVISORS

- Michael Snyder, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Efficient assessment of real-world dynamics of circadian rhythms in heart rate and body temperature from wearable data** *JOURNAL OF THE ROYAL SOCIETY INTERFACE*
  Kim, D., Mayer, C., Lee, M. P., Choi, S., Tewari, M., Forger, D. B.
  2023; 20 (205): 20230030
- **Impact of Light Schedules and Model Parameters on the Circadian Outcomes of Individuals** *JOURNAL OF BIOLOGICAL RHYTHMS*
  Mayer, C., Walch, O., Forger, D. B., Hannay, K.
  2023; 38 (4): 379-391
- **Consumer-grade wearables identify changes in multiple physiological systems during COVID-19 disease progression** *CELL REPORTS MEDICINE*
  Mayer, C., Tyler, J., Fang, Y., Flora, C., Frank, E., Tewari, M., Choi, S., Sen, S., Forger, D. B.
  2022; 3 (4): 100601
- **Distinct Circadian Assessments From Wearable Data Reveal Social Distancing Promoted Internal Desynchrony Between Circadian Markers** *FRONTIERS IN DIGITAL HEALTH*
  Huang, Y., Mayer, C., Walch, O. J., Bowman, C., Sen, S., Goldstein, C., Tyler, J., Forger, D. B.
  2021; 3: 727504
- **Predicting circadian phase across populations: a comparison of mathematical models and wearable devices** *SLEEP*
  Huang, Y., Mayer, C., Cheng, P., Siddula, A., Burgess, H. J., Drake, C., Goldstein, C., Walch, O., Forger, D. B.
  2021; 44 (10)
- **High-frequency temperature monitoring for early detection of febrile adverse events in patients with cancer** *CANCER CELL*
  Flora, C., Tyler, J., Mayer, C., Warner, D. E., Khan, S. N., Gupta, V., Lindstrom, R., Mazzoli, A., Rozwadowski, M., Braun, T. M., Ghosh, M., Forger, D. B., Choi, et al
  2021; 39 (9): 1167-1168
- **TRAVELING WAVE SOLUTIONS FOR A CANCER STEM CELL INVASION MODEL** *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B*
  Mayer, C., Stachura, E.

2021; 26 (9): 5067-5093

- **A method for characterizing daily physiology from widely used wearables** *CELL REPORTS METHODS*
  Bowman, C., Huang, Y., Walch, O. J., Fang, Y., Frank, E., Tyler, J., Mayer, C., Stockbridge, C., Goldstein, C., Sen, S., Forger, D. B.
  2021; 1 (4)

- **Monitoring Beliefs and Physiological Measures Using Wearable Sensors and Smartphone Technology Among Students at Risk of COVID-19: Protocol for a mHealth Study** *JMIR RESEARCH PROTOCOLS*
  Cislo, C., Clingan, C., Gilley, K., Rozwadowski, M., Gainsburg, I., Bradley, C., Barabas, J., Sandford, E., Olesnavich, M., Tyler, J., Mayer, C., DeMoss, M., Flora, et al
  2021; 10 (6)

- **Monitoring Health Care Workers at Risk for COVID-19 Using Wearable Sensors and Smartphone Technology: Protocol for an Observational mHealth Study** *JMIR RESEARCH PROTOCOLS*
  Clingan, C. A., Dittakavi, M., Rozwadowski, M., Gilley, K. N., Cislo, C. R., Barabas, J., Sandford, E., Olesnavich, M., Flora, C., Tyler, J., Mayer, C., Stoneman, E., Braun, et al
  2021; 10 (5): e29562

- **Predicting circadian misalignment with wearable technology: validation of wrist-worn actigraphy and photometry in night shift workers** *SLEEP*
  Cheng, P., Walch, O., Huang, Y., Mayer, C., Sagong, C., Castelan, A., Burgess, H. J., Roth, T., Forger, D. B., Drake, C. L.
  2021; 44 (2)