

**Tsinghua University Biometrics Dataset Release Agreement**  
**Multi-Camera and Multi-Signal Biosensing Dataset at High Altitudes(SUMS)**  
**Principal Investigator(s): Jiankai Tang and Yuntao Wang**

**Introduction:** SUMS dataset is a multi-Camera and multi-Signal Biosensing dataset collected at high altitudes, which includes 80 synchronized non-contact facial and contact finger videos from 10 subjects during exercise and oxygen recovery scenarios. This dataset captures PPG, respiration rate (RR), and SpO2, and is designed to validate video vitals estimation algorithms and compare facial rPPG with finger cPPG. Please star this repository for details and new update: <https://github.com/thuhci/SUMS>.

**Release of the Database:** To advance the state-of-the-art in human recognition and healthcare, to the extent permitted by law, the SUMS dataset will be made available to researchers on a case-by-case basis only. All requests for the SUMS dataset must be submitted in writing to Tsinghua University **by the researcher's institution on behalf of the individual researcher or research unit**. To the extent permitted by law, to receive a copy of the SUMS dataset, the requesting organization must sign this document and agree to observe the restrictions listed below. In addition to other possible remedies, failure to observe these restrictions may result in revocation of permission to use the data as well as denial of access to additional datasets distributed by Tsinghua University. The dataset will be distributed over the Internet to licensees only. There will be no charge for data made available and downloaded via the Internet.

**Consent:** The researcher(s) agrees to the following restrictions on the SUMS dataset:

- 1. Redistribution:** Without prior approval from the Tsinghua University Principal Investigator, the SUMS dataset, in whole or in part, will not be further distributed, published, copied, or disseminated in any way or form whatsoever, whether for profit or not. This includes further distributing, copying or disseminating to a different facility or organizational unit within the requesting university, organization, or company.
- 2. Protection of de-identification:** There shall be no attempt made to defeat the de-identification of the data provided.
- 3. Destruction:** Licensee agrees to destroy certain images in the dataset, or to destroy all copies of the dataset, if requested by the Tsinghua University Principal Investigator.
- 4. Modification and Commercial Use:** Without prior approval, the SUMS dataset, in whole or in part, may not be modified or used for commercial purposes. The license granted herein is specifically for the internal research purposes of Licensee, and Licensee shall not duplicate or use the disclosed dataset, its contents, or any seal, logo, mark, or phrase associated with or owned by Tsinghua University to manufacture, promote, or sell products or technologies (or portions thereof) either directly or indirectly for commercialization or any other direct for-profit purpose without the prior written permission of Tsinghua University.
- 5. Publication Requirements:** Those seeking to include renderings of more than 10 images from the SUMS dataset in reports, papers, and other documents to be published or released must first obtain approval in writing from the Tsinghua University Principal Investigator. In no case should the images be used in a way that could cause the original subject embarrassment or mental anguish.
- 6. Citation:** All documents and papers that report on research that uses the SUMS dataset must acknowledge the use and source of the dataset by using the following citation or BitTex form:  
Ke Liu\*, Jiankai Tang\*(\*Co-first Author), Zhang Jiang, Yuntao Wang, Xiaojing Liu, Dong Li, Yuanchun Shi, "Summit Vitals: Multi-Camera and Multi-Signal Biosensing at High Altitudes", IEEE UIC, 2024
- 7. Publications to Tsinghua University:** A copy of reports and papers with related code that are for public or general release that use the SUMS dataset must be forwarded immediately upon release or publication to the Tsinghua University Principal Investigator.
- 8. Indemnification:** Researcher agrees to indemnify, defend, and hold harmless Tsinghua University and its officers, employees and agents, individually and collectively, from any and all losses, expenses, damages, demands and/or claims based upon any such injury or damage (real or alleged) except to the extent permitted by law, when caused by the gross negligence or willful misconduct of Tsinghua University, and shall pay all damages, claims, judgments or expenses resulting from Researcher's use of the SUMS dataset, as determined by the court.

---

NAME OF INSTITUTION

---

PI SIGNATURE

---

DATE

---

ORGANIZATION ADDRESS

---

CONTACT INFORMATION

---

NAME OF RESEARCHER(s)

Please scan and dispatch the completed agreement via your institutional email to [tjk24@mails.tsinghua.edu.cn](mailto:tjk24@mails.tsinghua.edu.cn) and cc [yuntaowang@tsinghua.edu.cn](mailto:yuntaowang@tsinghua.edu.cn). The email should have the subject line 'SUMS Access Request - your institution.' In the email, outline your institution's past research and articulate the rationale for seeking access to the SUMS, including its intended application in your specific research project.