

# DATA3406 Human in the loop data analytics, University of Sydney, 2020

## Assignment 2: Personal Informatics

PARTICIPANT INFORMATION SHEET, CONSENT TO CONTRIBUTE DATA AND BACKGROUND QUESTIONNAIRE

(1) What is the study and assignment about?

This is part of an assignment in the undergraduate subject, DATA3406 Human-in-the-loop data analytics. In this assignment, we want to gain understanding of how to analyse data from a mobile phone to determine how active a person is. An improved way to do this could be valuable for both individuals and public health researchers. We also aim to replicate work in the following paper:

Althoff, Tim, Jennifer L. Hicks, Abby C. King, Scott L. Delp, and Jure Leskovec. "Large-scale physical activity data reveal worldwide activity inequality." Nature 547, no. 7663 (2017): 336.

(2) Who is carrying out the study?

The study is being conducted by Benjamin Winiarski, Jeremy Tan, Martin Gossow, Serena Gao, Stanley Dong and William Yu under the supervision of Judy Kay as the lecturer for DATA3406 Human-in-the-loop data analytics, a subject in the School of Computer Science.

(3) What does the study involve?

We will show you how to extract the step data from your mobile phone and how to share it with my group for analysis. We store their data on a Google drive and analyse it using a Google tool called Colab and that these are accessible to my group for the assignment and by the teaching staff.

(4) How much time will the study take?

To collect the data and complete the questionnaire will take approximately 10 minutes.

(5) Can I withdraw from the study?

Being in this study is completely voluntary - you are not under any obligation to consent and you may withdraw at any time without affecting your relationship to the researchers.

(6) Will anyone else know the results?

All personally identifiable aspects of the study, including results, will be strictly confidential. Your name will be held by me and then handed to the lecturer who will keep it securely until six months after the end of the semester and then shred it. My assignment group will have access only to the anonymised step data and your answers to the questionnaire. A report of will be submitted for assessment and the main results will be presented to my class, but individual participants will not be identifiable in these.

(7) Will the study benefit me?

There is no payment for participation. You will be contributing to my work on my assignment.

(8) Can I tell other people about the study?

You are free to discuss the study with others.

(9) What if I require further information?

When you have read this information, Jeremy will discuss it with you further and answer any questions you may have. If you would like to know more at any stage, please feel free to contact:

Jeremy Tan, Student, (DATA3406, 2020), [wtan0750@uni.sydney.edu.au](mailto:wtan0750@uni.sydney.edu.au)

Judy Kay, Professor, (DATA3406, 2020), [judy.kay@sydney.edu.au](mailto:judy.kay@sydney.edu.au)

### QUESTIONNAIRE AND PREFERENCES

Please answer the questions below.

Background

**\*Required**

Email address \*

Your email address

Gender \*

- ☐ Male
- ☐ Female
- ☐ Other

Country of residence \*

Your answer

How physically active are you? \*

- 1 2 3 4 5
- Not physically active at all ☐ ☐ ☐ ☐ ☐ Very physically active

### Phone wearing behaviour

One of the challenges of the analysis we need to do is that the phone data's accuracy is limited by how much people actually carry or wear their phone. For example, if you often leave your phone in your office, it is harder for our analysis to provide meaningful results.

Please indicate which of the following best describes your phone wearing/carrying. I typically wear/carry my phone: \*

- ☐ More than 10 hours a day
- ☐ Around 8 - 10 hours a day
- ☐ Around 4 - 7 hours a day
- ☐ Less than 4 hours a day

Please comment on your answer to help us understand it. For example, you might comment that you typically wear your phone on work days because you wear clothes that have suitable pockets but you often do not wear it on weekends.

Your answer

### Fitness Tracker

If you do not have a fitness tracker app, we would highly recommend 'Pacer' it is a free step tracking and exercise app which can be downloaded from <https://www.mypacer.com> for both Android Users and IOS Users.

### Steps to export and email your step count

[https://docs.google.com/document/d/1Tv1CGOme8O2wYoXGfRBMHIT\\_3oRdNJppMLwsaRnnnE/edit?usp=sharing](https://docs.google.com/document/d/1Tv1CGOme8O2wYoXGfRBMHIT_3oRdNJppMLwsaRnnnE/edit?usp=sharing)

### Your preferences.

Please indicate whether your agreement with the following.

I would like a copy of the final presentation of results \*

- ☐ Yes
- ☐ No

I would be happy to be contacted in the future for follow work on this topic. \*

- ☐ Yes
- ☐ No

Other comments

Your answer

Submit

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