

CONSENT TO PARTICIPATE IN NON-BIOMEDICAL RESEARCH

Inferring Social Networks Automatically Using Wearable Sensors

You are asked to participate in a research study conducted by Professor Alex Pentland PhD and Nathan Eagle, MS, from the Media Laboratory at the Massachusetts Institute of Technology (M.I.T.), the results of which may be published in a dissertation. You should read the information below, and ask questions about anything you do not understand, before deciding whether or not to participate.

• PARTICIPATION AND WITHDRAWAL

Your participation in this study is completely voluntary and you are free to choose whether to be in it or not. If you choose to be in this study, you may subsequently withdraw from it at any time without penalty or consequences of any kind. The investigator may withdraw you from this research if circumstances arise which warrant doing so.

• PURPOSE OF THE STUDY

This is a study of patterns in human behavior and the evolution of social networks using data collected from mobile phones. There are several aims of the study:

- *Modeling the dynamics of individual and group behavior*
- *Developing similarity and relationship inference metrics*
- *Quantifying how information spreads across communication and proximity networks*

• PROCEDURES

If you volunteer to participate in this study, we may ask to collect a variety of information. You will be equipped with a pocket-sized sensing device, in most cases the Nokia 6600. You must agree to carry the device while you are on the MIT campus.

The data will be stored in the following way on in our database. Any additional information from the phone logs will be deleted.

Communication Log: (date, text/call, incoming/outgoing, duration, MD5 hashed number)

20040720T211505 DESCRIPTION: Voice call DIRECTION: Outgoing DURATION: 23
HASHED NUMBER: a8f4ea530ddb13c34db1d946652f6db

Phone Status: (charging, idle/active, current application in use)

20040721T095311 Charger: 1

20040721T083501 UserActivity: idle

20040721T095541 ActiveApp: [100058b3] Phone

Proximate (Visible) Bluetooth Devices: (date, mac, [device name], ...)

20040721T111222 devices: 000e6d2a3564 [S11] 000e6d2b06ea [t610]

Celltower ID: (date, area, cell, network)

20040721T111642 area, cell, nw: 24127, 2421, AT&T Wirel

User-Defined Celltower Names: (area, cell, network, name)

24127, 111, AT&T Wirel My Office

24127, 182, AT&T Wirel My Apt

- **POTENTIAL RISKS AND DISCOMFORTS**

The one concern associated with this experiment is privacy risk. Several measures will be put into place to minimize the invasion of privacy.

- Any part of the log will be erased at your request.
- At no time will the identity of the subjects be revealed.
- Any data collected during this experiment will be stored on a secure computer only accessible by the principle and associate investigators.
- You have the right to withdraw from the experiment at any time and have all of your data destroyed.
- You can turn the phone 'invisible' at any time, which stops all logging but all the normal phone functionalities will still work.

- **POTENTIAL BENEFITS**

There are no other benefits for participating in this research other than the potential use of the Nokia 6600. However, the data you will help collect will be extremely valuable to social scientists. Additionally, detailed data on mixing parameters within a social network enable epidemiologists with more information to make predictions about our vulnerability to the next SARS, as well as greater insight into preventing future epidemics.

- **PAYMENT FOR PARTICIPATION**

There are no plans to pay subjects.

- **CONFIDENTIALITY**

Any information that is obtained in connection with this study and that can be identified with you will remain confidential and will be disclosed only with your permission or as required by law.

You, the consentor (indicated below) understand that the following conditions apply regarding participation in this experiment:

1. At any time during or after the experiment you can request to withdraw from the study. I understand that all the data collected from me will be destroyed if I decide to withdraw.
2. The recorded material that contains any identity information will not be broadcast or published in any form without additional consent.

You also are to understand that the following measures will be taken to protect your privacy – (i) fictitious names or ID numbers will be used in any publications that use the data collected, (ii) the data will be stored on a secure computer only accessible to the investigators, (iii) any conversation will be erased immediately at your request.

- **IDENTIFICATION OF INVESTIGATORS**

If you have any questions or concerns about the research, please feel free to contact Nathan Eagle: nathan@media.mit.edu - 617-253-6589 (Associated Investigator)
Sandy Pentland: sandy@media.mit.edu - 617-253-0648 (Principal Investigator)

- **EMERGENCY CARE AND COMPENSATION FOR INJURY**

In the unlikely event of physical injury resulting from participation in this research you may receive medical treatment from the M.I.T. Medical Department, including emergency treatment and follow-up care as needed. Your insurance carrier may be billed for the cost of such treatment. M.I.T. does not provide any other form of compensation for injury. Moreover, in either providing or making such medical care available it does not imply the injury is the fault of the investigator. Further information may be obtained by calling the MIT Insurance and Legal Affairs Office at 1-617-253 2822.

- **RIGHTS OF RESEARCH SUBJECTS**

You are not waiving any legal claims, rights or remedies because of your participation in this research study. If you feel you have been treated unfairly, or you have questions regarding your rights as a research subject, you may contact the Chairman of the Committee on the Use of Humans as Experimental Subjects, M.I.T., Room E32-335, 77 Massachusetts Ave, Cambridge, MA 02139, phone 1-617-253 6787.

SIGNATURE OF RESEARCH SUBJECT OR LEGAL REPRESENTATIVE

I understand the procedures described above. My questions have been answered to my satisfaction, and I agree to participate in this study. I have been given a copy of this form.

Name of Subject

Name of Legal Representative (if applicable)

Signature of Subject or Legal Representative

Date

SIGNATURE OF INVESTIGATOR

In my judgment the subject is voluntarily and knowingly giving informed consent and possesses the legal capacity to give informed consent to participate in this research study.

Signature of Investigator

Date