or IRB Office Use
RB No:
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APPLICATION FOR IRB REVIEW OF RESEARCH INVOLVING HUMAN SUBJECTS

(Not for exempt research)

Please complete this application as thoroughly as possible. Your application should include the following:

- 1. A consent form using the current CMU template that the participants and/or parent/guardian will be required to sign.
- 2. A copy of any questionnaires, surveys, images, de-briefings that will be used.
- 3. A copy of any recruitment documents (including advertisements, flyers, letters, invitations, email) to be used;
- 4. A copy of the training certificates for all individuals working on the research unless they are on file with the CMU IRB. Training is available at: <u>http://www.citiprogram.org</u>. See the <u>IRB website</u> for details.
- 5. If the PI is a student, the faculty advisor must submit a Faculty Advisor Assurance Form.

Please email all documents to <u>irb-review@andrew.cmu.edu</u>. For assistance call CMU Research Compliance @ 412-268-5460 or email <u>irb-review@andrew.cmu.edu</u>. Additional information and templates are available at <u>http://www.cmu.edu/osp/regulatory-compliance/human-subjects.html</u>

1. Protocol			
Title: Major Satisfaction			
		1	
This is a previously approved study	that has lapsed.	Previous IRB No: H	IS
2. Principal Investigator (PI)			
Name: Wentian Zhu		Department: Math	nematics and Statistics
Telephone: 412-519-5408	E-mail: wentianz@and	drew.cmu.edu	Training Cert. 🗌 Attached 🗌 On File
🛛 🖂 I am a student. If so, please provid	e information about y	our faculty advisor	below.
Faculty Advisor Name: Brian Junker	E-mail: brian@s	tat.cmu.edu	Training Cert. 🗌 Attached 🗌 On File
If a student is the PI, the fo	aculty advisor must comp	plete and submit a Fac	culty Advisor Assurance Form.
If there is someone other than PI to co	rrespond with regardi	ng this protocol, ple	ease list below.
Contact Person Name:	Telep	hone:	E-mail:
Business Manager for your department: E-mail:			
3. Co-investigators			
Name: Go Okumura	E-mail:		Training Cert. 🗌 Attached 🗌 On File
	gokumura@anc	lrew.cmu.edu	
Name: Olive Lam	E-mail: ool@and	drew.cmu.edu	Training Cert. 🗌 Attached 🗌 On File
Name: Mike Len	E-mail: mlen@a	ndrew.cmu.edu	Training Cert. 🗌 Attached 🗌 On File
Name: Dunyang Wang	E-mail:		Training Cert. 🗌 Attached 🗌 On File
	dunyangw@and	drew.cmu.edu	
Name:	E-mail:		Training Cert. 🗌 Attached 🗌 On File
Name:	E-mail:		Training Cert. 🗌 Attached 🗌 On File
Name:	E-mail:		Training Cert. 🗌 Attached 🗌 On File
4. Funding			
Unfunded research		Sponsor/Source:	
External Funding		SPEX Proposal #:	
Internal Funding		Oracle String:	

Carnegie Mellon University

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Grant Title:			
If you don't know the funding/grant information, plea	ase get it	from your department's business manager.	
5. Protocol Description			
Provide, in lay terms, a summary of your proposed study as outline	ed below.	You may attach the protocol to this form if you like.	
Purpose of the study. By conducting this survey, we would	hope to	be able to make inferences on specific majors on	
CMU campus, and obtain data regarding why people choose	se the m	ajors they chose to pursue.	
Describe the research procedures (include the activity, locati	ion and t	time required of the participant).We will send out	
emails containing a link to an online survey to participants. S	ince this	s is a web-based survey, there is no need to specify	
location and time.			
Who will be asked to participate?CMU undergraduate stude	ents		
Will questionnaires or surveys be used? 🔀 Yes 🗌 No			
Will tasks be done on a computer? 🔀 Yes 🗌 No 🛛 If yes, ho	w will th	ie tasks be accessed? 🔀 Remotely via the internet?	
In the research lab? Other, please explain:			
Will deception be used? Yes 🛛 No If yes, describe how	particip	ants will be debriefed. Please include the de-	
briefing material and/or script.			
Will the research be conducted on the CMU campus? X Yes		If no, please indicate the location(s).	
If applicable, please attach documentation of permis			
6. Participants			
Will any of the following classes of vulnerable subjects be inv	olved ir	the proposed study? (check all that apply)	
Class		Comments	
Pregnant women, human fetuses 🗌 Yes 🔀 No 📄 Pregnan	+	To the best of our knowledge, there will be no	
	it.		
women will not be specifically included or excluded. (see		pregnant women in the CMU undergraduate class.	
http://www.hhs.gov/ohrp/humansubjects/guidance/45cfr46.htm, research that is incidental to pregnancy and has no risk to the fetus can only include pregnant wom	en if Al I		
aspects of Subpart B are met.)			
Neonates Yes 🛛 No			
Prisoners 🗌 Yes 🔀 No			
Children 🗌 Yes 🔀 No			
	If yes, in	ndicate how this will be determined.	
Will the participants be capable of understanding the nature			
If no, explain.			
What is the age range of participants in the proposed study?	18-23		
How many participants are needed for the study? 1800		vas that number determined?Assuming a standard	
now many participants are needed for the study. 1000		on of ½ with 95% confidence interval and 5% margin	
		or, we would need to sample at least 353 students.	
		•	
		maximum 20% response rate on web-based	
	-	s, the sample size will be 1765. And this number is	
		ded to the more convenient 1800.	
What do you estimate the ratio of males to females be? 1:1			
No Will you target a certain population? 🛛 Yes 🗌 No Please explain Undergraduate students at Carnegie Mellon			
University			
What do you estimate the percentage of minorities will be?	We expe	ect 20% of the participants to be minorities including	

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incinternational students, African Americans and people with disabilities. This fact will have little influence on our study.
Please list inclusion and exclusion criteria. Please refer to the previous question.
7. Participant Recruitment
Describe how participant recruitment will be performed. Include how and by whom potential participants are
introduced to the study. Participants will receive an email which contains a link to the online questionaire.
Check all boxes below that apply.
CMU directory Postings, Flyers Radio, TV
E-mail solicitation Indicate how the email addresses are obtained:Email addresses will be obtained through the
online C-book.
Web-based solicitation. Specify sites:
Participant Pool. Specify what pool:
Other, please specify:
Please attach any recruiting materials you plan to use and the text of e-mail or web-based solicitations you will use.
8. Consent
Do you plan to use consent forms? 🛛 Yes 🗌 No
If no, you must complete the section below on waiver of informed consent.
If yes, describe how consent will be obtained and by whom. Consent will be obtained from the participants.
If participants are minors will assent forms be used? 🗌 Yes 🔀 No 🛛 If No, please explain. We don't think it will be
necessary.
Will the consent form be presented on paper or online? 🗌 Paper 🔀 Online
Are you requesting to use a consent format that is different from the CMU model consent? 🗌 Yes 🔀 No
If yes, please explain.
Are you requesting a waiver of informed consent? 🗌 Yes 🔀 No
If yes, please explain how each of the elements listed apply to your study:
1. The research involves no more than minimal risk to the subjects;
2. The waiver will not adversely affect the rights and welfare of the subjects;
3. The research could not practicably be carried out without the waiver and ;
4. Whenever appropriate, the subjects will be provided with additional pertinent information after participation.
Are you requesting a waiver of written documentation (signed) of informed consent? 🗌 Yes 🔀 No
If yes, please answer the following questions.
1. Will the only record linking the participant and the research be the consent document and the principal risk to the
participant harm would be from breach of confidentiality? 🗌 Yes 🗌 No
2. Do you consider this a minimal risk study that involves no procedures for which written consent is normally required
outside of research? 🔀 Yes 🗌 No
9. Risks and Benefits
Will participants receive intangible benefit from the study? 🗌 Yes 🔀 No
Discuss the direct and indirect benefits to participants. The result of this study will enable the participants to know
more about their school.
Discuss the risks to participants. The participants will be asked to disclose their GPA in the survey.
Discuss how any risks will be managed and/or minimized. We will keep all data collected from participants absolutely

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confidential.

If deception is involved, please explain.

Indicate the degree of physical or psychological risk you believe the research poses to human subjects (check which one applies).

Minimal Risk: A risk is minimal where the probability and magnitude of harm or discomfort anticipated in the proposed research are not greater, in and of themselves, than those ordinarily encountered in daily life of during the performance o routine physical or psychological examinations or tests.

Greater than Minimal Risk: A risk is greater than minimal where the probability and magnitude of harm or discomfort anticipated in the proposed research are greater than those ordinarily encountered in daily life or during the performance of routine physical or psychological examinations or tests.

Describe how the study fits in this risk level. GPA is the only sensitive topic in our questionaire.

10. Participant Compensation and Costs

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Are participants to be compensated for	the study? 🗌 Yes 🔀	No If yes, what is	the amount, type and source of funds?
Amount:	Source:		Type (gift card, cash):
Will participants who are students be of	fered class credit?	🗌 Yes 🔀 No	
Are other inducements planned to recru	it participants? 🗌 Y	/es 🔀 No 🛛 If yes, ple	ease describe.
Are there any costs to participants?	/es 🔀 No 🛛 If yes, p	lease explain.	
Will you compensate participants for inju-	ury resulting from pa	articipation? 🗌 Yes	No 🛛 NA If yes, please describe.
The participants are only asked to complete a questionaire online, this will not lead to possible inuuries.			
11. Confidentiality and Data Security			
Will personal identifiers be collected?] Yes 🗌 No	Will identifiers be t	ranslated to a code? 🔀 Yes 🗌 No
Will recordings be made (audio, video)?	🗌 Yes 🔀 No 🛛 If ye	s, please describe.	
Is the information so sensitive that you v	vill obtain a certifica	te of confidentiality	from NIH? 🗌 Yes 🔀 No
Who will have access to data (surveys, q	uestionnaires, recor	dings, interview reco	ords, etc.)? Only the investigators
Describe how you will protect participan	t confidentiality and	l secure research rec	ords (Will they be stored on a secure
computer, locked cabinet, etc?). The data will be stored on a secure computer and completely erased after the			
completion of study.			
Describe your process for monitoring da	ta to ensure that stu	ıdy goals are met. (Re	eview of lab notebooks, meetings to
review data, etc.) We will review lecture	notes and readings	in the book while ex	amining data, and set up group
meetings to review the data together.			
12. Conflict of Interest			
Do you or any individual who is associate	d with or responsible	e for the design, the c	onduct of or the reporting of this
research have an economic or financial in	terest in, or act as ar	n officer or director fo	or any outside entity whose interests
could reasonably appear to be affected b	y this research proje	ct: 🗌 Yes 🔀 No	
The second			

If yes, please provide detailed information to permit the IRB to determine if such involvement should be disclosed to potential research subjects.

13. Cooperating Institutions

Is this research being done in cooperation with any institutions, individuals or organizations not affiliated with CMU? Yes X No If yes, please list and describe their role.

Have you received IRB approval from another IRB for this study?
Yes Xe No Pending

If yes, please attach a copy of the IRB approval.

If applicable, please provide the name(s) and address(es) of all officials authorizing to access human subjects in

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cooperating institutions not affiliated with CMU.

Please attach documentation of approval.

Principal Investigator's Assurance Statement for Using Human Subjects in Research

I certify that the information provided in this IRB application is complete and accurate.

I understand that as Principal Investigator, I have ultimate responsibility for the conduct of IRB approved studies, the ethical performance of protocols, the protection of the rights and welfare of human participants, and strict adherence to the studies protocol and any stipulations imposed by Carnegie Mellon University Institutional Review Board.

I understand that it is my responsibility to ensure that the human participants' involvement as described in the funding proposal(s) is consistent in principle, to that contained in the IRB application. I will submit modifications and/or changes to the IRB as necessary.

I agree to comply with all Carnegie Mellon University policies and procedures, as well as with all applicable federal, state, and local laws, regarding the protection of human participants in research, including, but not limited to:

- Ensuring all investigators and key study personnel have completed human subjects training program;
- Ensuring protocols are conducted by qualified personnel following the approved IRB application;
- Implementing no changes in approved IRB applications or informed consent documents without prior IRB approval in accordance with CMU IRB policy (except in an emergency, if necessary to safeguard the well-being of a human participant, and will report to the IRB within 1 day of such change);
- Obtaining the legally effective informed consent from human participants or their representative, using only the currently approved date-stamped informed consent documents, and providing a copy to the participant.
- Ensuring that only IRB-approved investigators for this study obtain informed consent from potential subjects.
- Informing participants of any relevant new information regarding their participation in the research that becomes available.
- Promptly reporting to the IRB any new information involving risks to research participants, including reporting to the IRB, Data Safety and Monitoring Boards, sponsors and appropriate federal agencies any adverse experiences and all unanticipated problems involving risks to human subjects or others that occur in the course of the research.
- If unavailable to conduct research personally, as when on sabbatical leave or vacation, arrangements for another investigator to assume direct responsibility for studies will be made through modification requests to the IRB;
- Promptly providing the IRB with any information requested relative to protocols;
- Promptly and completely complying with IRB decisions to suspend or withdraw approval for projects;
- Obtaining Continuing Review approval prior to the date the approval for a study expires (approval for the study will automatically expire);
- Maintaining accurate and complete research records, including, but not limited to, all informed consent documents for 3 years from the date of study completion;
- Informing the CMU IRB of all locations in which human participants will be recruited for protocols and being responsible for obtaining and maintaining current IRB approvals/letters of cooperation when applicable;
- Complying with federal, state and local laws and regulations and sponsor terms and conditions; and
- Complying with CMU policies on the responsible conduct of research.

Wentian Zhu

03/03/11_____

Principal Investigator Name and Signature

Date

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Note: If e-mailed from the PI's CMU e-mail account a hand written signature is not needed. Please type in name and date. If the PI is a student, the faculty advisor must submit a Faculty Advisor Assurance Form.

Please email all documents to irb-review@andrew.cmu.edu.

Note: Links to the policies and Federal regulations for the protection of human research subjects (including the Code of Federal Regulations [.CF.R.] Title 45 CFR Part 46 and Title 21 C.F.R. parts 50 and 56) are available on the IRB web page (http://www.cmu.edu/provost/spon-res/compliance/hs.htm).

Comments: