

## OFFICE OF THE VICE-PRESIDENT, **RESEARCH AND INNOVATION**

# Human Participant Ethics Protocol Submission CONFIDENTIAL

) - Identification						
RIS Human Protocol Number 12878						
Protocol Title Gender, stereotypes and work environments						
Protocol Type nvestigator Submission						
applicant Information						
Applicant Name Prof Clementine Van Effenterre						
Rank / Position Asst Professor	<b>Department / Facu</b> Dept of Economics -		cience			
Business Telephone 116-946-3859	Extension					
Email Address c.vaneffenterre@utoronto.ca					-	
Amendments Details						
lease describe the proposed study amendments or modific	cations. (Amend the b	odv of the protocol	as require	d) :		
We plan to conduct a survey experiment to currently enro Management. The recruitment of alumni will take place mostly by email Participants will be presented with job scenarios with vary also answer a short questionnaire. The survey should not first three pages of the survey and a total of \$10 in payme first three pages of the survey and a total of \$10 in payme lottery and will have a 1:100 chance to earn a \$500 gift ca	(UofT emails). ing job characteristics take more than 15-20 nt for completing the f nt for completing the f	and will be asked fo minutes. Participar ull survey. Participa	or each so ts will rec nts will re	enario eive a	o to indicate their p a total of \$4 in paym a total of \$4 in paym	referred choice. They wi nent for completing the ment for completing the
/ill the proposed amendment change the overall purpose c aybe requested by the REB.	f the study? if Yes, a r	new protocol	○ Yes	۲	No	
Vill the proposed amendment affect the vulnerability of the roup or the research risk?	participant		⊖ Yes	lacksquare	No	
hat follow-up action do you recommend for study participa	ants who are already e	enrolled in the study	Select al	I that	apply.	
nform study Participants:						
Revise consent / assent forms (attach forms in section 9 ):						
Other- Please Describe:						
	Protocol #:41336					
Status:Delegated Review App Version:0001	Sub Version:0000	Approved On:1	1-Apr-23	E	xpires On:14-Jul-2	3 Page 1 of 10

OFFICE OF RESEARCH ETHICS

	No	action	req	uired	l:
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 $\boxtimes$ 

Collaborators/Co-Investiga	ators								
Name	Departm	nent		Email		Phone	Designatior	n	Alt Contact
Manuela Collis	Rotman Sc Manager		manuela.	collis@mail.utoronto.ca	+1 (4	16) 978-5703	Co-Investigator	& Alt	Х
SEROR	Aix-Marseille	University	avner.	SEROR@univ-amu.fr	04 13	3 55 25 60 ext: +33	Collaborator		
Projected Project Dates									
Estimated Start Date 1-Apr-22									
2 - Location									
Location of the Research:		Jniversity of <sup>-</sup>	Foronto	Othe	er Locatio	ons			
Other Location Details									
Туре	Name	Locati	on	Country	Co	ontact	Email	De	escription
Non-Institutional Field Location				Canada					online
Non-Institutional Field Location				United States					Online
Administrative Approval/Consent									
Administrative Approval/Con	sent Needed:	• Y	es 🔿	No					
Uploaded Administra	tive Consent I	_etters							
	Document Title	e		Docume	nt Date				
	Not Applicable	)							
Means of Approval to Fo	ollow								
Community Based Particato	ry Research Projec	t? 🔿 Y	ies 💽 N	10					
Other Ethic Boards Approv	val(s)								
Another Institution or Site inv	volved?	ΟY	es 💽 I	No					
3 - Agreements and Reviews									
Funding									
Project Funded?   Yes  No									
External Funds Administered by U of T									
App No.	Fund No.	Sponsor/	Program	Status		Fund End Date	Peer Revie	ewed	1
221434	514568	Social So Huma		Awarded		2025-05-31			
Internal U of T Funding									
			Droto ocl #	41226					
Status:Delegated Review A	Protocol #:41336 Status:Delegated Review App Version:0001 Sub Version:0000 Approved On:11-Apr-23 Expires On:14-Jul-23 Page 2 of 10 CEEICE OF DESEABCH ETHICS								

Source	Status	Peer Reviewed				
Faculty of Arts & Science Tri-Council Bridge Funding for the 2020 SSHRC Insight Development Grant proposal	Awarded					
Agreements						
Funding/non-funding Agreement in Place? O Yes  No			,			
Any Team Member Declared Conflict of Interest? O Yes   No						
Reviews						
This research has gone under scholarly review by thesis committee, departmental review comm	ittee, peer review comm	ittee, or some other equi	valent			
This research will go under scholarly review prior to funding						
This review will not go under a scholarly review						
4 - Potential Conflicts						
Conflict of Interest						
Will researchers, research team members, or immediate family members receive any personal benefit	t? 🔿 Yes 💿 N	0				
Restrictions on Information						
Are there any restrictions regarding access to, or disclosure of information (during or after closure)?	🔿 Yes   💿 No					
Researcher Relationships						
Are there any pre-existing relationships between the researchers and the researched? O Yes	No					
Collaborative Decision Making						
Is this a community based project - i.e.: a collaboration between the university and a community group	o? 🔿 Yes 💿 No					
5 - Project Details						
Summary						
Rationale						
Describe the purpose and scholarly rationale for the project						
Gender segregation across fields and occupation remains one of the key contributors of the persistence of the gender gap in pay (Blau & Kahn 2017). A large body of research has investigated how differences in preferences and beliefs contribute to this gap (see Niederle 2016 and Shurchkov and Eckel 2018 for surveys). In the field, previous studies have found that social identity consideration affect women's decision to enter male-dominated fields (Delfino 2021; Del Carpio & Guadalupe 2018). Using laboratory experiments, studies have shown that women are more risk averse (Dohmen et al. 2011), less effective negotiators, (Exley et al. 2016), less self-confident (Niederle & Vesterlund 2007), and more likely to undervalue their contribution to successful group work (Isaksson 2019). Women are also less willing to contribute ideas in stereotypically male-typed domains (Coffman 2014), and Bordalo et al. (2019) and Chen and Houser (2019) find that these effects are stronger in mixed-gender groups where gender is known. Finally, previous work has also shown that changes in the interaction space might trigger reactions that eventually harm women. For instance, Isaksson & Eikensten (2018) found that men tend to retaliate more than women in games. We want to explore barriers that limit the participation of women to male-dominated fields. Using an online experiment, our empirical approach aims at answering the following questions: are discrimination and retaliation more likely to emerge in an environment where women are a minority, or when they perform a task perceived as deviating from traditional gender roles? Do punishment behaviors affect the performance and contribution decisions of men and women to task? Are these behaviors less likely to emerge in the presence of structural (formal reporting or punishment mechanism) or a normative (social stigma) enforcement mechanism? The REB application will cover the pilot version of the study. In the pilot version, we will (1) test our different quizz questions (if they are readab						
Protocol #:41336 Status:Delegated Review App Version:0001 Sub Version:0000 Approved On:1	1-Apr-23 Expires On	n:14-Jul-23 Page 3	of 10			
OFFICE OF RESEARCH ETHICS	Expires On	rage 3				

payoff for every group member. If no group member nominated any of their quiz performances, the payoff for every group member will be zero. They will learn who nominated which quiz performance and which performance has been selected to be the payoff-that-counts for the given round. They can express what they think of every group member's nomination decision. If they disagree with other group member's decisions, they will have the option to let them know. we will test several ways in which they can let them know. They will have the option to remove up to x points from their payment. For every point they decide to remove from their payment, they will be deducted y points. The values x and y will be piloted. They will have the option to push a button to produce a klaxon noise, or to display an unpleasant but harmless image (cockroach). Their answers will be transmitted to the group member.

At the end of the first session, participants are asked about their preferences regarding the game conditions for the second session. For instance, they are offered the opportunity to play in a game in which other players cannot put a penalty on their score, in a game in which they are not a gender minority, or in a game for which they choose the type (female/male) questions. All these options are offered with a price deduction to their final payment.

\* Amendment: to test the relevance of the mechanisms identified in the lab in terms of real career choices, we plan to run a survey experiment with currently enrolled and recent graduates in economics and commerce from the University of Toronto. A preliminary version of the questionnaire is in attachment.

#### Methods

Describe formal/informal procedures to be used

This will be an incentivized experiment. The experiment will be coded using oTree and the language used can be found in the attached document entitled "Instrument\_question\_piloting".

\* Amendement: we will pilot the messages broadcasted during the lab experiment online on Prolific. The instructions are attached

(Instructions\_pilot\_vignette\_final).

\* Amendement: we will collect data through an online survey disseminated to alumni from the economics department and students currently enrolled in economics and commerce/management at Rotman School of Commerce. Participants will be presented with job scenarios with varying job characteristics and will be asked for each scenario to indicate their preferred choice. They will also answer a short questionnaire. The survey should not take more than 15-20 minutes. Participants will receive a total of \$4 in payment for completing the first three pages of the survey and a total of \$10 in payment for completing the full survey. In addition to the \$10 completion award, they will be able to enter a lottery and will have a 1:100 chance to earn a \$500 gift card.

Copies of questionnaires, interview guided and/or other instruments used

Document Title	Document Date
Battery of questions	2022-07-11
Instrument_question_piloting	2022-07-11
Sample question	2022-07-11
Instruction for piloting vignette study	2023-02-03
Questionnaire - preliminary	2023-04-10

**Clinical Trials** 

Is this a clinical trial? O Yes

# 6 - Participants and Data

Participants and/or Data

What is the anticipated sample size of number of participants in the study? 15,000

No

Describe the participants to be recruited, or the individuals about whom personally identifiable information will be collected. List the inclusion and exclusion criteria. Where the research involves extraction or collection personally identifiable information, please describe where the information will be obtained, what it will include, and how permission to access said information is being sought.

We will recruit study participants onli	ne. We will include	the following exclusion re	estrictions:		
Quality-control measures:		-			
- Number of previous submi	issions: The particip	ant has to have complete	ed at least 100 studies prior to	participating in this study.	
- Approval rate of 95%, that	is, the participant h	as to be approved for the	eir quality of work in 95 out of 1	00 studies	
Population screening:					
- Has to be fluent in English	(the language of οι	ır study)			
- Has to be a resident in the					
- Has to be 18 years old or	older				
- Has completed the educat	ion screening quest	ion			
*The total compensation is depende	nt on the length of th	ie study. The minimum c	compensation will be \$15 per ho	our in the form of a complet	tion fee. The
participants will then have the opport	tunity to earn additic	nal payment in the form	of bonus payments.*		
* PILOT:					
As part of this study, we will pilot all	the questions used f	or the main study first w	ith an online population (on « P	rolific »). This is a shorter	experiment in which
participants are asked to complete a	10-minute study an	d complete 20 out of all	the questions we share with yo	u in the file « Battery_of_Q	uestions ».
Participants are paid a \$1.50 comple	tion fee and can ea	rn additional payment (p	aid as a bonus payment). The a	additional payment is deter	mined as follows.
First, 10 out of the 20 questions will	be randomly choser	to count for additional p	ayment. Then, the participant r	eceives \$0.15 for every qu	estion they answered
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		Protocol #:41336			
Status:Delegated Review App	Version:0001	Sub Version:0000	Approved On:11-Apr-23	Expires On:14-Jul-23	Page 4 of 10

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<ul> <li>correctly. Thus, the additional payment will range between file name « Instrument_question_piloting.pdf».</li> <li>Restriction: We will recruit 2,000 participants for the pilot s an approval rating of 95% (these are standard quality measince that comes closest to the laboratory participants in th *Amendment: for the recruitment of participants for the in-the Toronto Experimental Economics Laboratory (TEEL)*</li> <li>*Amendment: we plan to run a vignette study on Prolific to Material for the vignette study will be attached to the amer Quality-control measures: <ul> <li>Number of previous submissions: The participant has Population screening:</li> <li>Has to be fluent in English (the language of our</li> <li>Has to be a resident in the United States</li> <li>Has to be 18 years old or older</li> <li>Has completed the education screening questio We aim for a 10-minute study with a completion fee of \$2.*</li> </ul> </li> <li>Amendment: online survey experiment. We plan to cond department and the Rotman School of Management. We alumni from Rotman in to ensure sufficient responses. We</li> </ul>	study. We will restrict the asures). We will also re- he main study (where we person experiment, we be test how the message adment. We will recruit in thas to have complete is to be approved for the study) n 40 to complete the sum uct a survey experiment expect a relatively low in this in economics, 1000 a will not keep any pers	the study to Prolific participal strict the participant pool to ve will recruit college study will rely on Online Recruit as we will present in the lat participants on Prolific. We ed at least 100 studies prior air quality of work in 95 out vey. We will not incentivize to currently enrolled study response rate, so we plan currently enrolled in common onally identifiable informated ds to be mitigated (for examples)	ants who have taken at least 10 o individuals who have comple ents at the university lab).* tment System for Economic Ex b experiment are perceived by e will include the following excl or to participating in this study. t of 100 studies e the answers. dents and past students from L to target a survey to approxim- nerce at Rotman School of Ma tion once the data collection is	00 studies prior, have sted a college degree speriments (ORSEE) of external evaluators. lusion restrictions:
understanding consent, history of exploitation by researche participant)?	rs, or power differentia	I between the researcher	and the potential	
Recruitment				
Is there recruitment of participant?  • Yes  No				
Recruitment details including how, from where, and by wh	om			
The participants will be recruited through a variety of meth *Amendment: survey experiment. The recruitment of alum necessary.				al search on LinkedIn if
Is participant observation used? () Yes ( No				
	<b>.</b>			
Will translation materials be used/required? O Yes	No			
Attach copies of all recruitment posters, flyers, letters, ema	ail text, or telephone sc	ripts		
Document Title		Document Date		
email recruitment		2023-04-10		
[				
Compensation				
Will the participants receive compensation?	O No			
	$\mathbf{C}$			
Type of Compensation				
Financial				
In-kind				
Other				
Compensation Justification Details				
For completing this study, participants will be paid on a days of completing the study. * Amendment: for the pilot of the vignette study on Proc * Amendment: Participants will receive a total of \$4 in completing the full survey. In addition to the \$10 comp card.	blific, participants will be payment for completing	e paid \$2.40 for a ten-minu g the first three pages of th	ute study.* he survey and a total of \$10 in	payment for
	Protocol #:41336			
Status:Delegated Review App Version:0001	Sub Version:0000	Approved On:11-Apr-	-23 Expires On:14-Jul-23	Page 5 of 10
OFFICE OF RESEARCH ETHICS				

Compensation will not be affected if someone chooses to withdraw.

### - Investigator Experience

#### Investigator Experience with this type of research

Please provide a brief description of the previous experience for this type of research by the applicant, the research team, and any persons who will have direct contact with the applicants. If there is no previous experience, how will the applicant and research team be prepared?

Clémentine Van Effenterre is the leading PI of this project. She is an assistant professor of Economics at the University of Toronto. She has conducted two IRB and REB approved field experiments. She has expertise in survey design and working with human subjects. Manuela Collis is a PhD student at Rotman School of Management at University of Toronto and is the Student Co-PI of this study. She has run several ethics board approved laboratory studies and online studies. She is supervised by the leading PI. Avner Seror an assistant professor of Economics at Aix-Marseille University. He spent one year at Chapman University as a postdoc before joining Aix-

Marseille University. This gave him a unique exposure and opportunity to interact with scholars in both political economy and behavioral economics.

Are community members collecting and/or analyzing data? () Yes () No

#### - Possible Risks and Benefits 8

# Possible Risks

#### Potential Risk Details:

Physical Risks	⊖ Yes	lacksquare	No
Psychological/emotional Risks	○ Yes	lacksquare	No
Social Risk	○ Yes	lacksquare	No
Legal Risk	⊖ Yes	lacksquare	No

#### Potential Benefits

#### **Benefit Description**

The participant can most likely not expect any individual benefits. However, this work has potentially large benefits to the society. If we better understand where and why gender biased behavior and decisions occur, we are equipped to do something to close them. This research study contributes to the increased

9 - Consent	

#### **Consent Process Details**

Informed consent will be obtained through an electronic consent form. We do not obtain consent in written form as the study will take place online. The first page of the research study will contain the consent information. The consent form states in short and simple language what the research entails and that the potential participants can choose whether to be part of this research. Participants will have unlimited time to review it before deciding whether they would like to participate.

\* Amendment: for the pilot of the vignette study, the informed consent is included in the instructions document attached to the amendment.\* \* Amendment: for online survey, the informed consent is included in the instructions document attached to the amendment.\*

#### Uploaded letter/consent form(s)

Document Title	Document Date
Informed consent - revised	2022-07-11
Informed consent - survey experiment	2023-04-10

Is there additional documentation regarding consent such as screening materials, introductory letters etc.: 🔿 Yes No

Uploaded letter/consent form(s)

Will any information collected in the screening process - prior to full informed consent to participate in the study - be retained for those who are later excluded or refuse to participate in the study?	Yes	No	
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		Protocol #:41336			
Status:Delegated Review App	Version:0001	Sub Version:0000	Approved On:11-Apr-23	Expires On:14-Jul-23	Page 6 of 10
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Is the research taking place within a comminvolvement of the individual participants	unity or organization whi	ch requires form	al consent be sought prior to t	he 💿 Yes 🔿 No		
Describe how consent will be obtained. If o	consent will not be soug	ht, please provide	e justification and describe an	y alternative forms of const	ultation	
Application for Surveying of U of T Studen	ts, Faculty, Librarians, S	Staff, and Alumni	by U of T Researchers on g	oing		
Are any participants not capable (e.g.: child	dren) of giving competer	nt consent?	Yes ( No			
10 - Debriefing and Dissemination	on					
DeBrief						
Will deception or intentional non disclosure	e be used? O Yes	No				
Will a written debrief be used? O Yes	No					
Do participants/communities have the right	to withdraw their data fo	llowing the debri	ef? 🔿 Yes 💿 No			
Information Feed Back Details following co	ompletion of a participar	nts participation i	n the project			
*We don't plan to provide a debriefing to p studies if necessary. Second, it creates a through common networks. However, we contacting us.*	risk of contamination of	other potential pa	rticipants in case the study is	rolled out and participants	are recruited	
Procedural details which allow participants	to withdraw from the pr	oject				
Participants will be informed of their right t	o withdraw via the conse	ent form. Particip	ants can exercise this right at	any point during a study w	ithout penalty.	
Not Applicable						
What happens to a participants data and a	any known consequence	s related to the r	emoval of said participant			
There are no consequences for withdrawin	ng from this study. If a pa	articipant choose	s to withdraw, his or her data	will be deleted and not use	ed for analysis.	
Not Applicable						
List reasons why a participant can not with	ndraw from the project (e	either at all or afte	r a certain period of time)			
Participants have the right to withdraw the their data will be removed from the databate be anonymous						
Not Applicable						
11 - Confidentiality and Privacy						
Confidentiality						
Is the data confidential?  • Yes	No					
Will the confidentiality of the participants an	d/or informants be prote	ected?  Yes	O No			
List confidentiality protection procedures The identifiable information (Prolific or Mturk ID) which may have to obtained during the signup process will be collected and stored separately from the data obtained during the study session. During the study, we will not collect identifiable data. Furthermore, all data we obtain will be coded, encrypted and stored on secure servers. *Amendment: for the in-person experiment, the identifiable information which may have to obtained during the signup process will be collected and stored separately from the data obtained during the study session.* *Amendment: for the online survey experiment, the identifiable information which may have to obtained during the signup process will be collected and stored separately from the data obtained during the survey.*						
Are there any limitations on the protection	of participant confidentia	ality? 🔿 Yes	No			
Is participant anonymity/confidentiality not applicable to this research project? O Yes O No						
Data Protection						
	Protoco	l #:41336				
Status:Delegated Review App V	ersion:0001 Sub Ve	rsion:0000	Approved On:11-Apr-23	Expires On:14-Jul-23	Page 7 of 10	

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Describe how the data (including written records, video/audio recordings, artifacts and questionnaires) will be protected during the conduct of the research and subsequent dissemination of results

Data will be stored on a password-protected computer in an encrypted file in a locked office/computer and/or stored on encrypted USB keys.

Explain for how long, where and what format (identifiable, de-identified) data will be retained. Provide details of their destruction and/or continued storage. Provide a justification if you intend to store identifiable data for an indefinite length of time. If regulatory requirements for data retention exists, please explain.

No direct or indirect identifiers are being collected. This anonymous data will be retained at the conclusion of the study. That data will be stored on a passwordprotected computer in an encrypted file in a locked office/computer and/or stored on encrypted USB keys and may be retained indefinitely post-publication as is standard practice within Economics and Management.

Will the data be shared with other researchers or users? 

Yes
No

Please describe how and where the data will be stored and any restrictions that will be made regarding access. How will participant consent be obtained? If data is to be made open access, please describe how and where they will be maintained.

We will share this anonymous data with our research collaborator Avner Seror at Aix-Marseille University.

### 12 - Level of Risk and Research Ethics Board

Level of Risk for the	e Project
Group Vulnerability	/ Low
Research Risk	Low
Risk Level	1
Explanation/Justific	ation

Explanation/Justification detail for the group vulnerability and research risk listed above

This is a benign behavioral intervention. It is brief in duration, harmless, painless, not physically invasive, not likely to have a significant adverse lasting impact on the subjects, and we have no reason to think the subjects will find the interventions offensive. Furthermore, the participants for this study are drawn from a low-risk group and the design includes no deception or otherwise risky elements.

Research Ethics Board

REB Associated with this project Social Sciences, Humanities & Education

### 13 - Application Documents Summary

Uploaded Documents

Document Title	Document Date
Cover letter - revisions	2022-07-11
Battery of questions	2022-07-11
Instrument_question_piloting	2022-07-11
Sample question	2022-07-11
Instruction for piloting vignette study	2023-02-03
Questionnaire - preliminary	2023-04-10
email recruitment	2023-04-10
Informed consent - revised	2022-07-11
	Protocol #:41336

Status:Delegated Review App Version:0001 Sub Version:0000 Approved On:11-Apr-23 Expires On:14-Jul-23 Page 8 of 10

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Document Title	Document Date
Informed consent - survey experiment	2023-04-10

# 14 - Applicant Undertaking

I confirm that I am aware of, understand, and will comply with all relevant laws governing the collection and use of personal identifiable information is research. I understand that for research involving extraction or collection of personally identifiable information, provincial, federal, and/or international laws may apply and that any apparent mishandling of said personally identifiable information, must be reported to the office of research ethics.

As the Principal Investigator of the project, I confirm that I will ensure that all procedures performed in accordance with all relevant university, provincial, national, and/or international policies and regulations that govern research with human participants. I understand that if there is any significant deviation in the project as originally approved, I must submit an amendment to the Research Ethics Board for approval prior to implementing any change.

X I have read and agree to the above conditions

Protocol #:41336 Sub Version:0000 Status: Delegated Review App Version:0001 Approved On:11-Apr-23 Expires On:14-Jul-23 Page 9 of 10 OFFICE OF RESEARCH ETHICS



RIS Protocol Number: 42878

Approval Date: 11-Apr-23

PI Name: Prof Clementine Van Effenterre

**Division Name:** 

Dear Prof Clementine Van Effenterre:

Re: Your research protocol application entitled, "Gender, stereotypes and work environments"

The Social Sciences, Humanities & Education REB has conducted a Delegated review of your application and has granted approval to the attached protocol for the period 2023-04-11 to 2023-07-14.

This approval covers the ethical acceptability of the human research activity; please ensure that all other approvals required to conduct your research are obtained prior to commencing the activity.

Please be reminded of the following points:

- An **Amendment** must be submitted to the REB for any proposed changes to the approved protocol. The amended protocol must be reviewed and approved by the REB prior to implementation of the changes.
- An annual **Renewal** must be submitted for ongoing research. Renewals should be submitted between 15 and 30 days prior to the current expiry date.
- A **Protocol Deviation Report** (PDR) should be submitted when there is any departure from the REB-approved ethics review application form that has occurred without prior approval from the REB (e.g., changes to the study procedures, consent process, data protection measures). The submission of this form does not necessarily indicate wrong-doing; however follow-up procedures may be required.
- An Adverse Events Report (AER) must be submitted when adverse or unanticipated events occur to participants in the course of the research process.
- A Protocol Completion Report (PCR) is required when research using the protocol has been completed.
- If your research is funded by a third party, please contact the assigned Research Funding Officer in Research Services to ensure that your funds are released.

Best wishes for the successful completion of your research.

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