Project details

® Title of Project (max 25 words)		The effects of demography and migration on cooperation and competition: a large-scale field study		
® Type of Project		Staff or joint Staff/Student project \$		
® At which campus is this project based?		Penryn \$		
® Names of researchers		Shakti Lamba + PhD students, postdocs and research assistants hired to work on project		
® Correspondent's Email (separate with a semi-colon if providing more than one)		s.lamba@exeter.ac.ul	k	
Estimated start date (dd/mm/yyyy) and duration of the project		15/04/2014 - 5 years		
Research Groups	Animal (Streatham)	0	
	Animal (Tremough)		
	DNA (Str	reatham)		
	DNA (Tre	emough)		
	GM (Stre	atham)		
	GM (Tren	mough)		
	Other (St	treatham)		
	Other (Tr	remough)	lacksquare	



Summary:

Lay Summary (Rationale, Key methods etc max 250 words)

1. The primary objective of this project is to test how well demographic evolutionary models describe observed patterns of human cooperation by examining how the demographic features of populations, particularly different patterns of migration, affect the degree and scale of cooperation amongst individuals.

This will be achieved through the following specific objectives 2-4: 2.To compare behavior in multiple populations of a matrilocal society, where typically men are the migrating sex, with behavior in populations of a patrilocal society, where women are the migrating sex, in order to test whether sex-biased migration has predicted effects on levels of cooperation within and between the sexes.

3.To conduct a longitudinal study of patterns of cooperative and competitive behavior in multiple populations to quantify the extent to which behaviour patterns reflect social structure, demographic features of populations and individual characteristics.

Does your study involve work with animals?

Does this study involve human DNA/Genetics?

® Track

Is this a database/modelling project

Purpose of project and its academic rationale. (max 150 words)

Yes No

Yes No

Yes No

Track A 💠

Cooperation, defined in the evolutionary sciences as behavior that benefits others at a cost to the actor, is a cornerstone of human social organization. The degree and scale of cooperation varies considerably across human populations and many authors have attributed this variation to cultural differences. However, it remains unclear what drives this cultural variation. A substantial body of theory in evolutionary biology predicts that demographic characteristics of populations, such as their size and patterns of migration, may be important drivers of cooperation and competition. But these theoretical ideas have never been empirically tested in human populations, so it remains unclear whether evolutionary models are useful tools to explain variation in patterns of human cooperation. This study will be the first to empirically test these ideas in a set of real- world populations in order to investigate whether demographic influences on cooperation and competition explain

Briefly explain how have you considered the 3Rs? (max 150 words)

the cultural variation observed across populations.

This research does not involve the use of animals.

I am familiar with the BPS Guidelines for ethical practices in psychological research (and have discussed them with other researchers involved in the project.)



Summary:

Lay Summary (Rationale, Key methods etc max 250 words)

cooperation within and between the sexes.

3.To conduct a longitudinal study of patterns of cooperative and competitive behavior in multiple populations to quantify the extent to which behaviour patterns reflect social structure, demographic features of populations and individual characteristics.

4.To measure cooperative behavior in multiple ways for the same individual to determine whether patterns of behavior vary according to the context of cooperation. This will address a major outstanding question in both the social and natural sciences about whether there are "cooperative" and "non-cooperative" types of people, or whether the same individual can display different levels of cooperation in different contexts.

The study will generate a large-scale, longitudinal behavioural dataset of cooperative behavior in multiple populations of two small-scale Indian

Does your study involve work with animals?

Does this study involve human

13:

DNA/Genetics?

® Track

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Track A 💠

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to the context of cooperation. This will address a major outstanding question in both the social and natural sciences about whether there are "cooperative" and "non-cooperative" types of people, or whether the same individual can display different levels of cooperation in different contexts.

The study will generate a large-scale, longitudinal behavioural dataset of cooperative behavior in multiple populations of two small-scale Indian societies with contrasting systems of marriage and wealth inheritance, the Khasi and Pahari Korwa respectively. A combination of economic games, behavioural surveys, and observations of contributions to public works will be used to measure levels of cooperation.

Does your study involve work with animals?

Yes No

Does this study involve human DNA/Genetics?

Yes No

® Track



Is this a database/modelling project

Yes No

Purpose of project and its academic rationale. (max 150 words)

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Communication and Consent

ection 1	Will you describe the main experimental procedures to participants in advance, so that they are informed in advance about what to expect?	Yes⊙ No⊜ n/a⊝
	Will you tell participants that their participation is voluntary?	Yes No n/a
	Will you obtain written consent for participation?	Yes No n/a
	If the research is observational, will you ask participants for their consent to being observed?	Yes⊙ No⊜ n/a⊝
	Will you tell participants that they may withdraw from the research at any time and for any reason?	Yes No n/a
	With questionnaires, will you give participants the option of omitting questions they do not want to answer?	Yes⊙ No⊜ n/a⊝
	Will you tell participants that their data will be treated with full confidentiality and that, if published, it will not be identifiable as theirs?	Yes No n/a
	Will you debrief participants at the end of their participation (ie. give them a brief explanation of the study)?	Yes No n/a

If you have ticked No to any of the questions in section 1 and you consider that your project has no significant ethical implications, please give an explanation here

Since most participants in our study populations are not literate, we cannot obtain their written consent. However, we will obtain their informed verbal consent. After verbal instructions about the study have been delivered, participants will be individually asked for verbal consent. They will also be informed that they may withdraw from the study at any time and do not have to answer any questions that they do not wish to. I have been working with the Pahari Korwa since 2007 and with the Khasi since 2013 and have used this method of obtaining consent from them before. Where possible we will make an audio recording of the above procedure for each participant in our study.

Psychology

Will your project involve deliberately misleading participants in any way?

Is there a realistic risk of any participants experiencing either physical or psychological distress or discomfort?

Yes No n/a

Vunerable Groups

Do participants fall into the following categories?	School children (under 18 years of age)	Yes No n/a
	People with learning or communication difficulties	Yes No n/a
	Those at risk of psychological distress or otherwise vulnerable	Yes No n/a
	People in custody	Yes No n/a
	People engaged in illegal activities (e.g. drug taking)	Yes No n/a

Track A: No significant ethical implications

I consider that this project has no significant ethical implications to be brought before the Departmental Ethics Committee.

Yeso No n/a

In less than 150 words, provide details of the experiment including the number and type of participants, methods and tests to be used (i.e. the procedure).

Recruitment: We wish to sample all the adult individuals in a village and will therefore approach every house in a village. However, only individuals who provide informed consent will be included in the study. Participants will be approached by first advertising the study amongst the community through public announcements and then via door to door house visits.

Number: We will sample up to 15 Khasi and 15 Pahari Korwa villages. Mean population size is about 250 (approx. 100 adults and 150 children) so maximum sample size will be 3000-4000 adults. Age & gender: Adults of any age and gender.

Exclusion criteria: Any individuals who do not wish to participate or who are unable to participate due to physical or mental disabilities.

The study will generate a large-scale, longitudinal behavioural dataset. A combination of economic games, behavioural surveys, and

Track A: No significant ethical implications

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Yeso No n/a

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Attachments

X Master Information Sheet and Consent Form ENGLISH 02.05.14.pdf (109K)
Information and consent form
X Master Behaviour questionnaire ENGLISH 11.05.14.pdf (334K): Self report
behavioural questionnaire
X Master Individual questionnaire ENGLISH 11.05.14.pdf (130K): Individual
questionnaire
X Master Inheritance questionnaire ENGLISH 11.05.14.pdf (84K): Inheritance
questionnaire
X Social netoworks_English.pdf (104K): Social networks questionnaire
X Public Goods Game script_English 11.05.14.pdf (159K): Public Goods Game
script_
X Master Housing Data Sheet ENGLISH 02.05.14.pdf (43K): Housing Data sheet