01. General Study Information

All questions marked with a red asterisk (*) require a response. Questions without a red asterisk may or may not require a response, depending on those questions' applicability to this study.

1.1* Study Title:
Children's Thinking About Revenge

1.1.1 Full Study Title:
Children's Thinking About Revenge

1.1.2 If there are other U-M studies related to this project, enter the eResearch ID number (HUM#) or IRBMED Legacy study number. Examples of related projects include, but are not limited to:

- Projects funded under the same grant
- IRBMED Legacy study being migrated into eResearch
- Previously approved Umbrella applications (such as Center Grants or approvals for release of funding)
- Previously approved projects for which this is a follow up study

1.2* Principal Investigator:
Craig Smith

Note: If the user is not in the system, you may Create A New User Account...

1.3 Study Team Members:

<table>
<thead>
<tr>
<th>Study Team Member</th>
<th>Study Team Role</th>
<th>Appointment Dept</th>
<th>Appointment Selection Complete?</th>
<th>Student Account Required</th>
<th>Friend Account Required</th>
<th>COI Review Required</th>
<th>Edit Rights Required</th>
<th>Accepted Role?</th>
<th>PEERRS Human Subjects?</th>
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</thead>
<tbody>
<tr>
<td>Craig Smith</td>
<td>PI</td>
<td>Center for Human Growth &amp; Dev</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>no</td>
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<td>N/A</td>
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</tr>
<tr>
<td>Susan Gelman</td>
<td>Faculty Advisor</td>
<td>LSA Psychology</td>
<td>Yes</td>
<td>no</td>
<td>No</td>
<td>no</td>
<td>no</td>
<td>Yes</td>
<td>yes</td>
</tr>
<tr>
<td>Ben Collins</td>
<td>Research Staff</td>
<td></td>
<td>No</td>
<td>yes</td>
<td>No</td>
<td>no</td>
<td>yes</td>
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<td>yes</td>
</tr>
<tr>
<td>Tanvi Kulkarni</td>
<td>Research Staff</td>
<td></td>
<td>N/A</td>
<td>yes</td>
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<tr>
<td>Ariana Paredes-Vincent</td>
<td>Research Staff</td>
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<td>No</td>
<td>no</td>
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<td>Yes</td>
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<tr>
<td>Sarrina Patel</td>
<td>Research Staff</td>
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<td>yes</td>
</tr>
<tr>
<td>Zoe Van</td>
<td>Research Staff</td>
<td></td>
<td>N/A</td>
<td>yes</td>
<td>No</td>
<td>no</td>
<td>no</td>
<td>yes</td>
<td>yes</td>
</tr>
</tbody>
</table>
Project Summary:

While there is a great deal of research on how children make sense of interpersonal conflict, we know surprisingly little about how children view one dimension that is a factor in some conflicts: revenge. This study is designed to explore this question with children and adults. The key questions we ask are:

- When do children and adults view revenge as acceptable, and when do they not?
- Are people who engage in revenge viewed as deserving of punishment?
- Do judgments about the acceptability of revenge differ as a function of the amount of initial victimization, and the subsequent amount of revenge?
- Young children typically have a hard time understanding that a person can harbor the goal of harming another person. In the context of a revenge scenario, is this phenomenon easier to grasp for young children?
- Do children's and adults' views on revenge correlate with their own willingness to engage in revenge?

We hope that this research gives us more insight into how children think about an important aspect of human conflict. We also hope that the inclusion of an adult sample will give us a sense of a developmental endpoint in the way that people think about revenge.

Select the appropriate IRB:

Health Sciences and Behavioral Sciences

Estimated Study Start Date (Not required for IRBMED): (mm/dd/yyyy)
1/31/2015

Estimated Duration of Study:
One year

Application Type

Select the appropriate application type.
Standard, non-exempt, research project

Standard Study Information

Who initiated this study?
Investigator

If other, please specify:

Are you or any students working on this project being paid from a federally funded training grant?
1.2.3 This study is currently associated with the following department. To associate this research with a different department, click Select. If the department has defaulted to "student", click select to specify the department through which this application is being submitted.

Center for Human Growth & Dev

1.2.4 Will the study utilize resources from the following centers?

Select all that apply:

There are no items to display

1.2.6* Has the scientific merit of this study already been peer reviewed (i.e., reviewed by one or more recognized authorities on the subject)?

- Yes  - No

1.2.6.1* List the peer-review organization(s).

Peer Review Organization

Other (explain below)

Craig Smith, the PI, has shared the plans for this study with several faculty members in the UM department of psychology.

1.2.7* Is this a clinical trial?

- Yes  - No

Study Team Detail

1.4 Team Member:

Craig Smith

Preferred email: craigsm@umich.edu

Business phone  734-615-6463

Business address: ADVANCE Program  1214 S. University Avenue 48104-2592

1.5 Function with respect to project:

PI

1.6 Allow this person to EDIT the application, including any supporting documents/stipulations requested during the review process:

yes
1.7 Include this person on all correspondences regarding this application: *(Note: This will include all committee correspondence, decision outcomes, renewal notices, and adverse event submissions.)*

**Credentials: Required for PI, Co-Is and Faculty Advisors**

Upload or update your CV, resume, or biographical sketch.

<table>
<thead>
<tr>
<th>Name</th>
<th>Version</th>
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</thead>
<tbody>
<tr>
<td>CraigSmith.CV.doc</td>
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</tr>
</tbody>
</table>

**Conflict of Interest Detail: Required for all roles except Administrative Staff**

**Current Disclosure Status in M-Inform:** This study team member has indicated in M-inform that they do not have any outside interests to disclose.

**D1** Do you have an outside interest or relationship with a non-UM entity that relates to this research in one of the following ways:

- The entity is sponsoring this research
- The entity’s products are used in this research
- The entity has licensed your invention (e.g. device, compound, drug, software, survey, evaluation or other instrument) being used in this research
- Part of the work on this project will be subcontracted to the outside entity
- Other relationship not listed above

No

**D2** If "Yes" to the question above, name the entity or entities and provide a brief description of the relationship(s).

**Study Team Detail**

**1.4 Team Member:**

Susan Gelman

Preferred email: gelman@umich.edu  
Business phone: 734-764-0268  
Business address: Psychology 530 Church 48109-1043
1.5 Function with respect to project:
Faculty Advisor

1.6 Allow this person to EDIT the application, including any supporting documents/stipulations requested during the review process:
no

1.7 Include this person on all correspondences regarding this application: (Note: This will include all committee correspondence, decision outcomes, renewal notices, and adverse event submissions.)

Credentials: Required for PI, Co-Is and Faculty Advisors

Upload or update your CV, resume, or biographical sketch.

<table>
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Conflict of Interest Detail: Required for all roles except Administrative Staff

Current Disclosure Status in M-Inform: This study team member has disclosed outside interest(s) or relationship(s) in M-Inform.

D1 Do you have an outside interest or relationship with a non-UM entity that relates to this research in one of the following ways:

- The entity is sponsoring this research
- The entity's products are used in this research
- The entity has licensed your invention (e.g. device, compound, drug, software, survey, evaluation or other instrument) being used in this research
- Part of the work on this project will be subcontracted to the outside entity
- Other relationship not listed above

no

D2 If "Yes" to the question above, name the entity or entities and provide a brief description of the relationship(s).
Study Team Detail

1.4 Team Member:
Ben Collins
Preferred email: bcol@umich.edu
Business phone
Business address: 48109

1.5 Function with respect to project:
Research Staff

1.6 Allow this person to EDIT the application, including any supporting documents/stipulations requested during the review process:
yes

1.7 Include this person on all correspondences regarding this application: (Note: This will include all committee correspondence, decision outcomes, renewal notices, and adverse event submissions.)
yes

Credentials: Required for PI, Co-Is and Faculty Advisors

Upload or update your CV, resume, or biographical sketch.
Name
Version
There are no items to display

Conflict of Interest Detail: Required for all roles except Administrative Staff

Current Disclosure Status in M-Inform: This study team member has not yet disclosed in M-Inform.

D1 Do you have an outside interest or relationship with a non-UM entity that relates to this research in one of the following ways:

- The entity is sponsoring this research
- The entity’s products are used in this research
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- Other relationship not listed above
D2 If "Yes" to the question above, name the entity or entities and provide a brief description of the relationship(s).

---

**Study Team Detail**

1.4 Team Member:
Tanvi Kulkarni
Preferred email: tankul@umich.edu
Business phone
Business address: 48109

1.5 Function with respect to project:
Research Staff

1.6 Allow this person to EDIT the application, including any supporting documents/stipulations requested during the review process:
no

1.7 Include this person on all correspondences regarding this application: *(Note: This will include all committee correspondence, decision outcomes, renewal notices, and adverse event submissions.)*
no

**Credentials: Required for PI, Co-Is and Faculty Advisors**

Upload or update your CV, resume, or biographical sketch.

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**Conflict of Interest Detail:** *Required for all roles except Administrative Staff*
Current Disclosure Status in M-Inform: This study team member has not yet disclosed in M-Inform.

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- The entity has licensed your invention (e.g. device, compound, drug, software, survey, evaluation or other instrument) being used in this research
- Part of the work on this project will be subcontracted to the outside entity
- Other relationship not listed above

no

D2 If "Yes" to the question above, name the entity or entities and provide a brief description of the relationship(s).

Study Team Detail

1.4 Team Member:
Ariana Paredes-Vincent
Preferred email: arianapv@umich.edu
Business phone
Business address: 48109

1.5 Function with respect to project:
Research Staff

1.6 Allow this person to EDIT the application, including any supporting documents/stipulations requested during the review process:

no

1.7 Include this person on all correspondences regarding this application: (Note: This will include all committee correspondence, decision outcomes, renewal notices, and adverse event submissions.)

no

Credentials: Required for PI, Co-Is and Faculty Advisors

Upload or update your CV, resume, or biographical sketch.
Conflict of Interest Detail:  Required for all roles except Administrative Staff

Current Disclosure Status in M-Inform:  This study team member has indicated in M-inform that they do not have any outside interests to disclose.

D1  Do you have an outside interest or relationship with a non-UM entity that relates to this research in one of the following ways:

- The entity is sponsoring this research
- The entity's products are used in this research
- The entity has licensed your invention (e.g. device, compound, drug, software, survey, evaluation or other instrument) being used in this research
- Part of the work on this project will be subcontracted to the outside entity
- Other relationship not listed above

no

D2  If "Yes" to the question above, name the entity or entities and provide a brief description of the relationship(s).

Study Team Detail

1.4  Team Member:

Sarrina Patel
Preferred email:  patelbs@umich.edu
Business phone
Business address:  48109

1.5  Function with respect to project:

Research Staff

1.6  Allow this person to EDIT the application, including any supporting documents/stipulations requested during the review process:
1.7 Include this person on all correspondences regarding this application: (Note: This will include all committee correspondence, decision outcomes, renewal notices, and adverse event submissions.)

no

**Credentials: Required for PI, Co-Is and Faculty Advisors**

Upload or update your CV, resume, or biographical sketch.

<table>
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<th>Name</th>
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There are no items to display

**Conflict of Interest Detail: Required for all roles except Administrative Staff**

**Current Disclosure Status in M-Inform:** This study team member has not yet disclosed in M-Inform.

**D1** Do you have an outside interest or relationship with a non-UM entity that relates to this research in one of the following ways:

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- The entity's products are used in this research
- The entity has licensed your invention (e.g. device, compound, drug, software, survey, evaluation or other instrument) being used in this research
- Part of the work on this project will be subcontracted to the outside entity
- Other relationship not listed above

no

**D2** If "Yes" to the question above, name the entity or entities and provide a brief description of the relationship(s).

**Study Team Detail**

**1.4 Team Member:**

Zoe Van Dyke

Preferred email: zvandyke@umich.edu

Business phone
1.5 Function with respect to project:

Research Staff

1.6 Allow this person to EDIT the application, including any supporting documents/stipulations requested during the review process:

yes

1.7 Include this person on all correspondences regarding this application: (Note: This will include all committee correspondence, decision outcomes, renewal notices, and adverse event submissions.)

yes

Credentials: Required for PI, Co-Is and Faculty Advisors

Upload or update your CV, resume, or biographical sketch.

Name                      Version

There are no items to display

Conflict of Interest Detail: Required for all roles except Administrative Staff

Current Disclosure Status in M-Inform: This study team member has not yet disclosed in M-Inform.

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- The entity has licensed your invention (e.g. device, compound, drug, software, survey, evaluation or other instrument) being used in this research
- Part of the work on this project will be subcontracted to the outside entity
- Other relationship not listed above

no

D2 If "Yes" to the question above, name the entity or entities and provide a brief description of the relationship(s).
Study Team Detail

1.4 Team Member:

Elizabeth Williams

Preferred email: eannew@umich.edu
Business phone
Business address: 48109

1.5 Function with respect to project:

Research Staff

1.6 Allow this person to EDIT the application, including any supporting documents/stipulations requested during the review process:

yes

1.7 Include this person on all correspondences regarding this application: (Note: This will include all committee correspondence, decision outcomes, renewal notices, and adverse event submissions.)

yes

Credentials: Required for PI, Co-Is and Faculty Advisors

Upload or update your CV, resume, or biographical sketch.

There are no items to display

Conflict of Interest Detail: Required for all roles except Administrative Staff

Current Disclosure Status in M-Inform: This study team member has not yet disclosed in M-Inform.

D1 Do you have an outside interest or relationship with a non-UM entity that relates to this research in one of the following ways:

- The entity is sponsoring this research
- The entity’s products are used in this research
- The entity has licensed your invention (e.g., device, compound, drug, software, survey)
D2 If "Yes" to the question above, name the entity or entities and provide a brief description of the relationship(s).

02. Sponsor/Support Information

The following sections request details about the current or pending sponsorship/support of this study. Consider all of the choices below and complete the appropriate sections.

* Note: At least one of the following sections must be answered. Multiple sponsors or sources of support must be added one at a time.

2.1 External Sponsor(s)/Support:

<table>
<thead>
<tr>
<th>Type</th>
<th>Name</th>
<th>Other Direct Sponsor/Support</th>
<th>Support Type</th>
<th>Has PAF?</th>
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There are no items to display

2.5 Internal UM Sponsor(s)/Support: [Including department or PI discretionary funding]

<table>
<thead>
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<th>Type</th>
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There are no items to display

2.8 Check here if the proposed study does not require external or internal sponsorship or support:

☐

03. UM Study Functions

3.1* Indicate all functions that will be performed at University of Michigan locations.

Select all that apply:

- Recruitment (including screening)
- Interaction (e.g., information gathering, survey, interview, focus groups, etc.)
- Primary or secondary analysis (data/specimen)
- Storage (data/specimen)

If other, please specify.
03-1. Performance Sites

### 3-1.1* Performance Sites:

<table>
<thead>
<tr>
<th>Location</th>
<th>Country</th>
<th>&quot;Engaged&quot; in the research?</th>
<th>Site Function</th>
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<tbody>
<tr>
<td>Ann Arbor Hands-On Museum</td>
<td>USA</td>
<td>no</td>
<td>Interaction, Observation, Recruitment</td>
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<tr>
<td>University of Michigan</td>
<td>USA</td>
<td>yes</td>
<td>Storage, Interaction, Analysis, Recruitment</td>
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<tr>
<td>University of Michigan Museum of Natural History</td>
<td>USA</td>
<td>no</td>
<td>Interaction, Observation, Recruitment</td>
</tr>
</tbody>
</table>

### Performance Site Detail

### 3-1.2* Location or Institution:
Ann Arbor Hands-On Museum

### 3-1.3 Address:
- City: Ann Arbor
- State: MI
- Country*: USA

### 3-1.4* Function of this location with respect to this study:
Select all that apply:
- Recruitment (including screening)
- Interaction (e.g., information gathering, survey, interview, focus groups, etc.)
- Observation of behavior (direct or indirect)

If other, please specify:

### 3-1.5* Will this site be "engaged" in the conduct of the research?
- [ ] Yes
- [x] No

### 3-1.6 If known, provide the Federalwide Assurance (FWA) number for this location.

### 3-1.7 If applicable, indicate what organization, agency or government office has reviewed this research and provided its approval (e.g., IRB, ethics committee, school district office, prison official, nursing home administrator).

The UM IRB will approve the research. The museum director will then review the IRB documents and the study materials before the study is allowed to run in the museum.

### 3-1.8 Upload any location site approval documentation here:

<table>
<thead>
<tr>
<th>Name</th>
<th>Version</th>
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<tbody>
<tr>
<td>AAHOM Approval Letter.PDF</td>
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</table>
### Performance Site Detail

**3-1.2** Location or Institution:
University of Michigan

**3-1.3** Address:
- City: 
- State: MI 
- Country: USA

**3-1.4** Function of this location with respect to this study:
- Recruitment (including screening)
- Interaction (e.g., information gathering, survey, interview, focus groups, etc.)
- Primary or secondary analysis (data/specimen)
- Storage (data/specimen)

If other, please specify:

**3-1.5** Will this site be "engaged" in the conduct of the research?
- Yes
- No

**3-1.6** If known, provide the Federalwide Assurance (FWA) number for this location.
FWA00004969

**3-1.7** If applicable, indicate what organization, agency or government office has reviewed this research and provided its approval (e.g., IRB, ethics committee, school district office, prison official, nursing home administrator).

**3-1.8** Upload any location site approval documentation here:

Name                        Version
---                         ---
There are no items to display

---

**Performance Site Detail**

---

**3-1.2** Location or Institution:
University of Michigan Museum of Natural History

**3-1.3** Address:
- City: Ann Arbor
- State: MI 
- Country: USA
3-1.4* Function of this location with respect to this study:
Select all that apply:
- Recruitment (including screening)
- Interaction (e.g., information gathering, survey, interview, focus groups, etc.)
- Observation of behavior (direct or indirect)

If other, please specify:

3-1.5* Will this site be "engaged" in the conduct of the research?
- Yes
- No

3-1.6 If known, provide the Federalwide Assurance (FWA) number for this location.

3-1.7 If applicable, indicate what organization, agency or government office has reviewed this research and provided its approval (e.g., IRB, ethics committee, school district office, prison official, nursing home administrator).

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<table>
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05. Research Design

5.1* Is there a stand-alone scientific protocol document and/or research plan associated with this application?

- Yes
- No

5.1.1* Click ADD to attach the document(s) electronically.

<table>
<thead>
<tr>
<th>Name</th>
<th>Version</th>
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<tbody>
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<td>Study Protcol</td>
<td>History</td>
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</table>

5.1.2* Indicate the section where each of the following are covered in the attached protocol:

- Objective p. 1
- Specific Aim/Hypothesis p. 1
- Background Information p.1
- Methodology p.1-6
- Statistical Design p. 6

5.1.3* Study team Experience: Briefly outline the experience and competence of the
study team to pursue the proposed study.

I (Craig Smith; PI) completed my doctoral degree in Human Development and Psychology in 2009. After that I served as a postdoctoral fellow in the Harvard University psychology department. I am currently a postdoctoral fellow in the University of Michigan psychology department, and a research investigator in the UM Center for Human Growth and Development. I have been conducting research with 3-15-year-old children and their parents for about 10 years now and am very comfortable running studies with that population. Further, I have provided oversight for research assistants in my own research for roughly 7 years, and I now have effective RA training and supervision procedures in place.

My research assistants are undergraduate students at the University of Michigan. The four RAs who will be helping with data collection are part of the University of Michigan’s Undergraduate Research Opportunity Program (UROP), and they receive extra research training via UROP. The rest of them are working with me on the study design for course credit via Psych 326, and have been exposed to information about psychology research through their training with me, and via their coursework.

Serving as a faculty advisor on this project will be Dr. Susan Gelman, a professor in the UM department of psychology.

5.2* Will the involvement of ANY subjects in this study be limited to analysis of their existing data or specimens?

☐ Yes  ☐ No

5.3* Will the study involve recruitment and/or participation of subjects in order to produce new data (e.g., surveys, interaction, intervention)? [Require sections 8-1 and 11-3]

☐ Yes  ☐ No

5.4* List the inclusion and exclusion criteria for this study population and/or data set. (If covered in attached protocol, indicate section)

The subjects to be included in this study will be children aged 3-12 who have parental consent to participate and who themselves have verbally assented to take part in the study. Children will be politely excluded from participation if they are not fluent in English, since providing translation services is beyond the scope of the current project. Children will be excluded from the final data set if they: (a) failed to sit through the entire procedure, (b) were unable to answer the questions being asked, or (c) were identified by their parents as having potential difficulties making sense of social situations (e.g., children on the autism spectrum).

A sample of adults will also be included in the study, and will be recruited and surveyed online via Amazon’s Mechanical Turk service. The adults will be invited to participate if they have a US-based IP address, have completed at least 100 prior MTurk tasks, and have an approval rating of at least 95% from those prior MTurk tasks.

5.5 Identify any racial, ethnic, or gender group(s) that will be specifically excluded from participation in this research study and provide a compelling justification for such exclusion:

No potential participant will be excluded on the basis of race, ethnicity, gender, or any other demographic variables (e.g., religion, SES).

5.6* Indicate the age range (in years) of the subject population in this study.

Minimum Age:  3
Maximum Age:  999 If no upper limit, enter "999"
06. Benefits and Risks

6.1 * Describe the potential benefits of this research to society.

We know very little about how children think about the moral aspects of revenge, and how this thinking changes over the course of development. This study will be the first to explore how children conceptualize and react to revenge. This is basic research at this point; there are no immediate applications. However, this line of research may help adults who work with children understand more clearly how children think about interacting with their peers in conflict situations, and how these thoughts influence behavior.

6.2 * Will results of the research be communicated back to the subjects?

☐ Yes ☐ No

6.2.1 * Explain the plan and process.

The subjects are children. However, parents will be alerted to the fact that our results will be posted on our lab websites:

http://www.aahom.org/experience/events/living-lab-research-project
http://sites.lsa.umich.edu/livinglab/

They will be given information about how to access these websites. Further, they will be encouraged to email the PI if they would like results emailed to them.

6.3 * Describe any direct risks to the public or community, which could result from this research?

There are no anticipated risks associated with this study.

6.4 * Does this project involve study arms that have differing levels of benefit or risks to subjects?

☐ Yes ☐ No

6.5 * Benefits and Risks:

Click "Add" to begin entering the benefit and risk level detail information associated with this study.

<table>
<thead>
<tr>
<th>Name</th>
<th>Risk Level</th>
<th>Direct Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>View</td>
<td>No more than minimal risk</td>
<td>no</td>
</tr>
</tbody>
</table>

Benefits and Risk Level Detail

If a study involves multiple arms or phases that pose different levels of risk or direct benefits to subjects, then create an entry for each arm or phase using the "OK and Add Another" option at the bottom of this page. Only one entry is necessary if the risk level and the direct benefit to subjects is the same for the entire project, even if the study involves multiple arms or phases.

6.5.1 * Name of Arm (experimental group, study wave, etc.)

HUM00095249
6.6 * Are there potential direct benefits of this research to the subjects?

- Yes
- No

6.7 * Provide a description of the foreseeable risks to subjects. For studies involving multiple arms or phases, enter the risks for this arm or phase only.

Provide a description of the foreseeable risks to the subjects.

For EACH identified risk, include:

- Likelihood of the risk,
- Seriousness to the subject; and
- What measures will be taken to minimize the risk (for example, study design includes the substitution of procedures already being performed on the subject for diagnostic or treatment purposes, or in a study of Post-Traumatic Stress Disorder, the investigator takes steps to identify, manage, or refer as appropriate, subjects for whom the study may evoke very difficult emotions)

If possible, please use the following categories to assess the likelihood:

- "Common" (i.e., approximate incidence > 25%)
- "Likely" (i.e., approximate incidence of 10-25%)
- "Infrequent" (i.e., approximate incidence of 1-10%)
- "Rare" (i.e., approximate incidence < 1%):

Mild deception is used in this study, and it is possible that this might make participants (or parents of participants) uncomfortable. We anticipate the risk of this happening to be in the rare to infrequent range. In order to mitigate this risk, we plan to do a few things. First, we plan to let parents know about the deception ahead of time, so that they can choose to opt out if they aren't comfortable with it. Second, we plan to leave it up to the parents with regard to whether they wish to tell their children about the deception. This is noted on the debrief form, where we say: "Because you know your child best, we leave it up to you whether to tell your child about the deception. If you have questions about this, please don't hesitate to ask, or to contact Craig Smith (see contact info below)." Third, if requested by a parent or child, we will delete all data associated with a participant's participation.

6.8 * What is the level of risk of harm to the subjects, resulting from this arm of the research? For studies involving multiple arms or phases, enter the level of risk for this arm or phase only.

No more than minimal risk

6.9 * Discuss why the risks to the subjects are reasonable in relation to the anticipated benefits.

While the direct benefits are not immediately clear, there are also no clear risks linked to this research.

07. Special Considerations

7.1* Does this study involve human tissue or biological specimens (use, collection, or secondary analysis) (e.g. blood, urine, bone marrow, skin, etc.)? [Require Section 18]

- Yes
- No
7.2* Does this study involve the secondary analysis of a pre-existing data set, including data associated with any specimens identified in response to question 7.1? [Require Section 24]

☐ Yes  ☐ No

7.3* Will the research involve the access, collection, use, maintenance, or disclosure of University of Michigan protected health information (PHI)? PHI is:

- information about a subject's past, present, or future physical or mental health, the provision of healthcare to a subject, or payment for the provision of healthcare to a subject; AND
- maintained by a University of Michigan school, department, division, or other unit that is part of the University's HIPAA-covered component (e.g. healthcare provider, healthcare plan, or healthcare clearinghouse).

[Require Section 25]

☐ Yes  ☐ No

07-1. Special Considerations - Continued

7-1.1* Will subjects receive payment or other incentives for their participation in the study? [Require Section 13]

☐ Yes  ☐ No

7-1.2* Will subjects undergo healthcare-related treatments or procedures (standard of care and/or research) as part of the study? [Require Section 14]

☐ Yes  ☐ No

7-1.3* Does this study involve the deception or concealment of subjects? [Require Section 27]

☐ Yes  ☐ No

7-1.4* Excluding routine email correspondence, does this study involve the use of the Internet or email as an integral part of the research design or will sensitive information be transmitted by e-mail? [Require Section 28]

☐ Yes  ☐ No

7-1.5* Will the study collect data using surveys, interviews, or focus groups? [Require Section 29]

☐ Yes  ☐ No

7-1.6* Does this study require subjects to listen to an audio recording or view images? [Require Section 31]

☐ Yes  ☐ No

7-1.7* Will any drugs, biologics, nutritional (e.g., herbal or alternative medication) supplements or other material be administered, implanted, or applied to the subjects as the object of the study? [Require Section 15]

☐ Yes  ☐ No
7-1.8* Will the study involve a placebo (drug, device, procedure, intervention, surgery, etc.) control group? [Require Section 17]

- Yes  - No

7-1.9* Will the study involve human embryonic stem cells (hESCs) or induced pluripotent stem cells? [Require Section 19]

- Yes  - No

7-1.10* Will the study have a Data and Safety Monitoring Plan (DSMP)? [Require Section 32]

- Yes  - No

7-2. Special Consideration - Continued

7-2.1* Will any devices be used, administered, implanted, or applied to the subjects, or will human specimens be used to test in vitro diagnostic devices? [Non-IRB HSBS and Non-IRB Dearborn Applications Require Section 16]

- Yes  - No

7-2.2* Will the subjects be exposed to any ionizing radiation during the course of this study? [Require Section 21]

- Yes  - No

7-2.3* Will any organs, tissues, or cells from other humans (including fetal tissue) or animals be administered to the subjects for the purposes of this study? [Require Section 22]

- Yes  - No

7-2.4* Does this study involve a gene transfer intervention or an intervention based on recombinant DNA technology? [Require Section 23]

- Yes  - No

08. Subject Participation

8.1* Please indicate the number of subjects to be enrolled from ALL study locations to achieve the goal of the study:

300

8.2* Enter the estimated number of subjects to be enrolled at each University of Michigan site:
8-1. Subject Recruitment

8-1.1* At what point in the study are you planning on beginning the recruitment of subjects?

0-2 years after approval

8-1.2* Indicate which of the following established subject pools, if any, will be used for recruitment.

Select all that apply:

N/A

Provide Related UM IRB Project Number or Subject Pool Description:

8-1.3* Describe the manner in which potential study subjects will be recruited. List how, when, who will recruit and where they will be recruited. Include any provisions to protect or maintain subject privacy.

Child Participants

-------------

Child participants will be recruited in lab spaces called the Living Lab at the Ann Arbor Hands-On Museum and the University of Michigan Museum of Natural History (site approval letters are included with this application).

http://sites.lsa.umich.edu/livinglab/

Recruitment of children will follow established procedures used in the other Living Laboratory spaces. Parents and children in the Museums will be invited to participate as they are engaged in other activities. The PI on this project or his research assistants will be doing the recruiting. All participants will be invited in a way that makes it clear that they can decline (e.g., “If you and your child want to take part in a psychology study for children, we are set up in the Living Laboratory. Please feel free to stop by if you’re interested.”). At the time of the invitation, parents will also be offered a handout with a brief description of the goals and procedures involved in the study. At no point will parents or children be pressured to take part, or guided without their assent to the Living Laboratory space in the museum.

There are no pronounced privacy concerns, but the research staff will make sure that parents are invited to participate when no other families or groups are within earshot, so that no one feels extra pressure to say yes.
Adult Participants

Adult participants will be recruited online via Amazon's Mechanical Turk service. This is an established site that allows researchers to list online research opportunities. The listing on MTurk will specify that the study will involve answering questions in a Qualtrics survey for about 10 minutes, and that the job will pay $1. Adults will also see the eligibility criteria: (1) US-based IP address, 100 or more prior MTurk jobs, and 95% or higher approval rating from prior MTurk jobs.

---

8-1.3.1  If applicable, how will prospective subjects' healthcare providers (e.g., physician, dentist, etc.) be involved in the recruitment and/or be notified of their individual patients' participation in the study?

N/A

8-1.4  Explain how the recruitment strategy is equitable and represents the population required for the study. If the information is covered in the attached protocol, please indicate section.

The recruitment strategy for children will target visitors to the Ann Arbor Hands-On Museum and the UM Museum of Natural History. Therefore, the sample will be limited in that way. Other than that, a representative sample is desired, and attempts to invite participate from a diverse array of museum visitors will be made. Because (a) there are no more than minimal risks involved in this study, and (b) there are no pronounced direct benefits, issues involving equity are not deemed to be highly relevant.

Adult participants will be users of Amazon's MTurk service. This tends to be a fairly diverse group of people. Here again, however, because (a) there are no more than minimal risks involved in this study, and (b) there are no pronounced direct benefits, issues involving equity are not deemed to be highly relevant.

---

8-1.5  Does the recruitment strategy involve contacting individuals multiple times in an effort to secure their initial enrollment into the study?

☐ Yes  ☐ No

8-1.6  Indicate which methods will be used for recruitment?

Check all that apply:

- Face-to-face contact (e.g. during a health care visit or an interview at a home address, etc.)
- Public advertisement (e.g., bulletin boards, newspapers, radio, TV, websites, or on-hold telephone scripts, etc.)

If other please specify:

---

8-1.7  How will any email, address, and/or telephone lists be obtained?

N/A

8-1.8  What materials will be used for recruitment? The IRB must approve all recruitment materials.

See Help for important information regarding the requirements for recruitment materials.
Check all that apply:

- Flyers
- Oral scripts
- Web pages

If other please specify:

If Web pages will be used, provide the Web address (URL) for the location where the pages will be posted (also upload the content of the pages below):

The URL for MTurk is https://www.mturk.com/mturk/findhits

Upload recruitment materials here:

See Help for more information about working with documents (e.g. uploading, downloading, and editing).

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<tr>
<td>AAHOM Recruitment Flyer.pdf</td>
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<td>Amazon Mechanical Turk Recruitment Text.docx</td>
<td>History</td>
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<tr>
<td>MNH Recruitment Flyer.pdf</td>
<td>History</td>
</tr>
<tr>
<td>Oral Recruitment Script for Museums.docx</td>
<td>History</td>
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☐ Check here if any of the materials are not available electronically.

Note: Study Teams are encouraged to scan and upload documents. See Help for a list of sites with scanning facilities

09. Survey Populations

9.1* Is the study limited to a survey of either:
   - The general adult population (aged 18 or older); or
   - A subgroup of the general population which does not specifically target:
     - Pregnant women and/or fetuses
     - Lactating women
     - Women of child-bearing potential
     - Prisoners
     - Cognitively impaired adults
     - College students
     - Economically or educationally disadvantaged persons
     - Patients of the study team
     - Employees, students or trainees of the study team
     - Family members of the study team

where the survey is the sole interaction with the subject and does not pose more than minimal risk?

☐ Yes ☐ No

09-1. Subject Populations

9-1.1* Is the research designed to include or allow the following populations?
Select all that apply
Normal, healthy subjects

Adults age 18 and older

Minors able to consent to treatments or procedures involved in the research, under the applicable law of the jurisdiction in which the research will be conducted (e.g. emancipated minors or minors seeking treatment for certain conditions.)

Children and/or Viable Neonates (i.e. persons who have not yet reached the legal age for consent to treatments or procedures involved in the research, under the applicable law of the jurisdiction in which the research will be conducted) [Require Sections 33 and 41]

Neonates of uncertain viability and/or nonviable neonates (do not check this box if the research is solely retrospective. For retrospective research regarding neonates of uncertain viability, check the box for 'Children'. See Help for additional information.) [Require Section 34]

Individuals and/or products involving human in vitro fertilization

Pregnant women and/or fetuses [Require Sections 35 and 41]

Lactating women [Require Section 36]

Women of child-bearing potential [Require Section 37]

Prisoners (If the research includes a study population that is likely to become incarcerated during the conduct of the research, also select this category) [Require Section 38 and 41]

Cognitively impaired adults [Require Sections 39 and 41]

College students [Require Sections 40 and 41]

Economically or educationally disadvantaged persons [Require Section 41]

Patients of the study team [Require Section 41]

Employees, students or trainees of the study team [Require Section 41]

Family members of the study team [Require Section 41]

Unknown, unspecified population

10. Informed Consent - Adults

10.1* What type of informed consent will be obtained from adults or minors legally able to consent to treatments or procedures involved in the research?

Select all that apply:

- Comprehensive written
- Request for waiver of documentation of informed consent

10.1.2* Describe the process to seek and obtain informed consent and/or assent from adults. If requesting a waiver of documentation of assent, provide justification here.

Adults who wish to take part - having been recruited via Amazon's Mechanical Turk service - will be
directed to a Qualtrics survey page. There, they will read the consent form online. If they consent to participate, they will select ‘I AGREE’ and then advance to the next page.

10.1.3* Is the cognitive capacity of the subjects expected to change significantly during the study?

☐ Yes ☐ No

10. Informed Assent - Children

10.2* What types of informed assent for children and parental consent/permission will be obtained?

NOTE "Parent" or "Parental" below refers to parent or guardian. See Help for important instructions on selecting the appropriate category or categories.

Select all that apply:

- Oral assent script
- Parent comprehensive written consent/permission

10.2.2* Describe the process to seek and obtain informed assent for children and parental consent/permission (e.g., setting, timing, personnel involved, arrangements for answering subject questions before and after the consent is signed).

Once a parent and child have decided to approach the Living Lab space in the museums, they will be asked if they are there to take part in a study. (This step will be taken because some parents and children may wander over without having been recruited.) If they haven’t been recruited, the nature of the Living Lab will be explained to them, and the study will be described. They will then be asked if they are interested in participating.

Once a parent and child are in the Living Lab space and have decided to take part in the study, a more formal assent script will be used with the child. The experimenter will say: “Today we're doing a project where I am going to show you some pictures and ask you some questions about the pictures. There are no right or wrong answers - we're just interested in what you think. If you want to stop at any time, or if you don't want to do this project, you can let me know. Do you want to go ahead?"

On occasion, children sometimes choose not to take part in museum-based studies, even if their parents are interested in participating (this is usually due to the fact that there are many fun things to do in the museum). Only children who freely choose to participate will be included in the study. If an interested parent starts to pressure a child to take part, the experimenter will gently and tactfully reassure the parent and child that it’s okay if the child doesn’t want to participate.

The parent will also be asked to sign a consent form. The experimenter will happily answer questions about the study both before and after the consent and assent process. If a parent or child changes his/her mind about participating, the experimenter will thank them for their interest, assure them that it’s okay to stop, and give the child a small thank-you gift.

10.2.3* What criteria will be used to determine whether or not a child’s assent to participate will be obtained, whether that assent will be oral or written, and whether documentation of the child’s assent (e.g., signature on the assent form) will be obtained? If documentation of child’s assent is to be waived, provide a justification.

Children as young as 3 years of age are going to take part in this research, and it will be difficult for many of the younger children to provide written assent. This is why the plan to obtain verbal assent was put into place. No experimenter will continue the research procedure with a child who says ‘no’ during the assent process, or who seems upset or confused. In my experience running studies like this with this age group, problems like this rarely crop up in the museum setting. Most children who
don't want to take part in a study in the museum setting simply tell their parents of their wishes before they ever approach the Living Lab space.

10.2.4* Are any of the following changes expected in the status of child subjects during the study?

Check all that apply:

Expect no change in status of child subjects

10.2.4.1 If applicable, describe the plan to re-assent or obtain consent for the subject if any of the changes occur.

N/A

10-1. Informed Consent

10-1.1* All documents related to consent, assent, permission, and or debriefing documents, including oral scripts must be uploaded here. If you are requesting a waiver of documentation of informed consent, upload a copy of any written materials to be provided to participants, and provide a written description of any information to be provided orally.

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<td>AssentScript.docx</td>
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<td>Consent.docx</td>
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<td>Debrief.docx</td>
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</tr>
<tr>
<td>Parent Questionnaire (includes consent)</td>
<td>History</td>
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10-1.2* Will the subjects be audiotaped, videotaped, or photographed (identifiable images of subject) during the research?

☑ Yes ☐ No

10-1.3* Is there a substantial likelihood that the research will be conducted among a non-English-speaking population?

☑ Yes ☐ No

10-1.4* Indicate which anticipated costs could be the full or partial responsibility of the subject.

Check all that apply:

Other

If other, please specify:

Parents with children may be paying for parking, but they would have done this regardless of participation, since they are being recruited only after they are already in the museums.

10-1.5* Is the study designed to collect identifiable information from primary research subjects about other individuals, including family members?
10-4. Informed Consent Documentation Waiver

10-4.1* This is a request for a waiver of documentation of informed consent for the following reason:

Select at least one:

The research presents no more than minimal risk of harm to the subject and involves no procedures for which written consent is normally required outside of the research context.

10-4.2* Is this a request for a waiver of documentation of informed consent for all research procedures and all subject populations?

Yes  No

10-4.2.1* Identify the specific research procedures (e.g., screening interview) and/or the specific subject populations (e.g., parents of child subjects) for which a waiver of documentation is being requested.

The waiver is being requested only for those adults taking part in the study online.

The children providing data in the lab will have parents consent and will themselves give assent. Further, the children's parents, if they choose to fill out a survey in the lab, will also sign a consent form.

11. Confidentiality/Security/Privacy

11.1* Will the study team access any data that is linked to a subject's identity by name or other identifier or code? [Require Section 11-1]

Yes  No

11.2* Explain how the subjects' privacy will be protected.

To keep participants' data safe, the researchers will store consent forms separately from data in a secure location. The data provided during the experiment will be assigned a ID number that will be not be stored with participants' identities or names. Links between names and ID numbers will be destroyed after data collection is complete, to further protect confidentiality. This will be done by removing all names and other identifying information from all paper forms.

The paper and video data will be stored in a locked and secure location at the University of Michigan. We will retain an electronic copy of the data indefinitely, but paper copies of de-identified data will be destroyed after 5 years via shredding.

11.3* How will the research records, data and/or specimens be protected against inappropriate use or disclosure, or malicious or accidental loss or destruction in order to protect the confidentiality of subject data?

Select all that apply:

Locked office
Locked cabinet or storage unit
Secure laptop
If other please specify:

11.4* Will the research generate information that, if revealed, might place the subjects at risk of personal safety, criminal or civil liability, or damage to their financial standing, employability, or reputation [Require Section 11-2]

☐ Yes ☐ No

11.5* Will data be provided to a repository as part of a data sharing agreement?

☐ Yes ☐ No

11.6* What will happen to the data and/or any specimens at the conclusion of this study?

Select all that apply:

- Destroy
- Retain for study recordkeeping purposes

11.6.1* If the data and/or specimens will be destroyed, describe the specific plan that will be employed following the required retention period.

An electronic copy of the data set will be retained indefinitely, but paper copies of data will be destroyed after 5 years. This will be done via shredding.

11.6.2* If the data and/or specimens will be retained for study recordkeeping purposes, provide the following information (if covered in the attached protocol, please indicate section):

- expected duration of the retention period,
- any changes in the conditions or arrangements for storage of research data/specimens during the retention period, if different from those listed above in question 11.3.

An electronic copy of the data set will be retained indefinitely, but paper copies of data will be destroyed after 5 years. This will be done via shredding.

11-1. Identifiable Data

Completion of this section is required based on the response provided to question 11.1.

11-1.1* Indicate how subjects are identified in the research records.

Select all that apply:

- Indirectly -- linked to data record but stored separately (e.g., name, initials, phone number, SSN, or medical record number linked to data record but stored separately)

11-1.2* Explain the necessity for collecting or maintaining data linked to subjects' identities. If the information is covered in the attached protocol, please indicate section.

For participants taking part in this research in the lab, we will be collecting identifiable information on
consent forms as part of the consent process. These forms will not be attached to the rest of the data we collect. After data collection is complete, we will de-identify the consent forms by retaining ID numbers but removing and shredding places where names are written.

11-1.3* How long will the identifiers be retained?
Only until data collection is complete (estimated time is about 6 months).

11-1.4* Will individually identifiable sensitive data be accessed, collected, used, maintained, or disclosed in the study?

Yes  No

11-3. End of Subject Participation

11-3.1* What specific criteria will be used to prematurely end a particular subject's participation in the study (If covered in attached protocol or informed consent, indicate specific location).

If a parent or child request that the experiment stop during data collection, the experimenter will do so immediately. If a parent asks for their child's data to be removed from the data set before the data have been de-identified, this will be done.

Also - if a child looks upset, uncomfortable, or overly bored or distracted during the study, the experimenter will cut the procedure short, thank the child for his/her help, and give that child a thank-you gift.

While it is not expected that this will be an issue, the experimenter will also halt the study if a parent is answering all of the questions for his/her child, or is behaving coercively with the child.

11-3.2* If a participant withdraws from the research, what is the plan to use, disclose, store, or destroy the participant's data and/or specimen?

If a participant withdraws, that person's data will be destroyed (e.g., by shredding paper files, erasing video files, etc.).

13. Subject Payments Or Other Incentives

Completion of this section is required based on the response provided to question 7-1.1 or 7-3.3.

13.1* Indicate all payments or other incentives provided to subjects for their participation in this study:

Select all that apply:

Cash
Token gift

If other, please specify:

13.2* If the subject is a child (under the age of 18 in Michigan), are any of the payments or incentives intended for the parent/guardian of the child?

No
13.3* Estimate the maximum total payment (including cash, checks, gift cards, and other cash-equivalent incentives) that an individual subject could receive for participating in this research in a single calendar year.

$0.01-$25

13.3.1* Please indicate what information you will be collecting from subjects that will be paid for their participation.

Select all that apply:
None

13.4* Describe the frequency of the payments or incentives. If applicable, list any healthcare procedure(s) that will be provided to subjects at no charge.

Adults participating online (via MTurk) will be paid one dollar on one occasion for their participation. Children participating in the museums will be given a token gift one time after they are finished with the study (even if they don't answer all of the questions).

13.5* What is the justification for offering these payments or incentives?

For adults on MTurk, it is expected by MTurk workers that they get paid for their participation. We offer token gifts to children to make their experience more enjoyable.

13.6* What is the plan to compensate subjects withdrawing from the research prior to completing the entire study.

Adults on MTurk will not be compensated if they do not complete the study, since there will be no way to know who they are. Children who want to stop early will still receive a token gift.

27. Deception or Concealment Research

Completion of this section is required based on the response provided to question 7-1.3.

27.1* Indicate why deception or concealment is the only feasible means of conducting this research.

In the last phase of the procedure with child participants, they are led to believe that an anonymous other child (who lives in a different city) has provided an envelope with stickers that the participant can have as part of a sticker exchange. As noted in the study protocol, some participants will be led to believe that the other child used all of the stickers before mailing the envelope, while other participants will receive stickers that are ostensibly from the other child. Child participants will then be given a chance to pack an envelope of stickers that they are told will be sent back to the other child.

In reality, there is no other child. The envelopes given to participants will be packed by the researchers, and the envelopes the participants pack will be used as data in the study (the number of stickers participants share will be a variable).

This procedure was used by the PI of this study in Smith and Harris (2011) with great success. All participants enjoyed the sticker exchange game, and no participant was upset when assigned to the condition in which they received an empty envelope. In part, this was due to the fact that all children leave with stickers in the end (the experimenters make sure of this).

The use of deception is helpful here because we want to put participants in a situation in which they believe they are engaged in an interaction (albeit long-distance) with another child. Further, we want to hold constant certain aspects of that interaction. The use of this mild form of deception is the best
way we can see to do this.

27.2* Provide a detailed explanation of the nature of the deception or concealment including the use of any "confederates."

As noted above, in the last phase of the procedure with child participants, they are led to believe that an anonymous other child (who lives in a different city) has provided an envelope with stickers that the participant can have as part of a sticker exchange. As noted in the study protocol, some participants will be led to believe that the other child used all of the stickers before mailing the envelope, while other participants will receive stickers that are ostensibly from the other child. Child participants will then be given a chance to pack an envelope of stickers that they are told will be sent back to the other child.

In reality, there is no other child. The envelopes given to participants will be packed by the researchers, and the envelopes the participants pack will be used as data in the study (the number of stickers participants share will be a variable).

27.3* Is the research likely to produce psychological discomfort or negative feelings in the subjects?

☐ Yes ☐ No

27.4* If you are obtaining informed consent from the subjects, is the informed consent document or process a part of the deception or concealment?

No - the informed consent document is not part of the deception.

27.5* Do you plan to debrief subjects at the conclusion of the study?

☐ Yes ☐ No

27.5.1* Please upload the debriefing document here.

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<tr>
<td>Debrief.docx</td>
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28. Internet/Email

Completion of this section is required based on the response provided to question 7-1.4.

28.1* Please explain the specific information technology resources that will be utilized.

We will be recruiting adult participants via Amazon's Mechanical Turk service (a web-based service). Adults who want to participate will then be directed to a Qualtrics-based version of the study (Phases 1 - 3 in the appended protocol). After completing the Qualtrics portion of the study, adults will be directed to finish their participation by returning to an open MTurk tab in their browser.

28.2* Please explain the electronic security measures that will be employed to protect the privacy of the research subjects and the integrity of the information.

All data will be stored either on Qualtrics servers or on a secure, password-protected laptop computer.

28.3* Will representatives or advocates of the "community" under study be consulted in order to understand their expectations of privacy on the Internet or via email?
28.3.1* Explain.
The adults who will be taking part will all be experienced MTurk workers who will be familiar with the procedures involved in participating in online research.

28.4* If the results will be published or presented, will the pseudonyms/screen names of individuals studied be disguised?
N/A

28.4.1* Explain.
We will not be collecting screen names or pseudonyms.

29. Survey Research

Completion of this section is required based on the response provided to question 7-1.5.

29.1* Provide a list of all surveys and interviews used in the study:

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<tr>
<th>Name</th>
<th># of Questions</th>
<th>Duration</th>
<th>Sensitive?</th>
<th>Disturbing?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strengths and Difficulties Questionnaire</td>
<td>18</td>
<td>5 minutes</td>
<td>no</td>
<td>no</td>
</tr>
</tbody>
</table>

29.13* Will the research involve the use of focus groups?
- Yes
- No

29.14* Is any of the material disturbing?
- Yes
- No

Survey Detail

29.2* Survey or interview name:
Strengths and Difficulties Questionnaire

29.3* Is the design or development of this survey instrument dependent on receipt of funding or hiring of personnel?
- Yes
- No

29.4* In what manner will the survey or interview be conducted (e.g., in-person, Internet, mail, telephone, etc.)? Special Note: For electronic surveys, the eResearch ID number must be included in the informed consent document (uploaded in section 10-1) or other material that serves as the informed consent.
Parents will answer 15 questions from the Strengths and Difficulties Questionnaire. Parents will only do this if they want to, and the data they provide will be collected on paper and then entered into SPSS. There are also three other questions on the survey. One asks about the parent's relationship...
to the child. The other two ask about social conflict situations.

29.5* What is the predicted response rate?
85 %

29.6* What is the total number of questions?
18

29.7* What is the anticipated cumulative amount of time required for each subject?
5 minutes

29.8* What is the total number of interviews/data collection interactions with an individual subject?
1

29.9* Does the survey or interview contain questions of a sensitive nature (e.g., mental illness, sexual abuse, illicit drug use, etc.)?
- Yes
- No

29.10* Is the survey or interview likely to produce psychological discomfort or negative feelings in the subjects?
- Yes
- No

29.11* Has the survey instrument been validated or used in standard practice?
- Yes
- No

29.11.1* If yes, describe the origin of the instrument.
http://www.sdqinfo.com/

29.12* Upload the survey instrument here.

Name | Version
--- | ---
Parent Questionnaire.docx | 0.02

31. Watching/Listening to Audiovisual Materials

Completion of this section is required based on the response provided to question 7-1.6.

31.1* Please upload copies of all audio-visual materials used in the research.

Name | Version
--- | ---
sample images | 0.01

☐ Check here to indicate that the material is not available electronically.

31.2* Are any of the materials likely to produce psychological discomfort or negative feelings in the subjects?
33. Children - Interaction/Intervention Studies

Completion of this section is required based on the response provided to questions in Section 6 and 9-1.1.

33.1* Specify the age range(s) of the children to be included as subjects in this study.

Select all that apply:

- 0-6 years old
- 7-13 years old

33.2* For each research activity conducted with children, indicate the member(s) of the study team that will conduct the activity and briefly describe their expertise with children.

Craig Smith (PI): Involved in interaction, observation, recruitment, data storage, and data analysis. I have been working with children for roughly 20 years, first in a group-home setting, then in public school settings, later as a researcher, and also as a volunteer for my own children’s schools and soccer teams. I also studied child development as a doctoral student.

My research assistants have been selected because they have the skills and experience required to run studies with children in a safe and responsible manner. All of my RAs have taken part in the online ethics training, have been trained as volunteers by the Ann Arbor Hands-On Museum and the Museum of Natural History, and have experience working with children in some capacity (e.g., baby sitting camp counselors, tutors, etc.). Further, all have already been working with me on other studies with children.

33.3* Describe the adequacy of the research facilities to accommodate children participating in this study.

The two lab sites to be used in this study are housed in the Ann Arbor Hands-On Museum and the UM Museum of Natural History. These museums are designed for children in the target age range for this study. As such, there are things that children and parents may need close by (e.g., drinking fountains, restrooms, places to play, etc.). The spaces that will be used for the study are large enough to let children sit comfortably at a table and to have their parents sitting nearby. Furthermore, the staff at the museums are trained to respond to problems in the unlikely event that participating children and parents might need help for some reason.

33.4* Permitted Categories of Research: The federal policy and regulations governing human subject protections specify that research involving children must fall into one of the following permitted categories. Check all categories of permitted research that apply to this study. The information provided here must be consistent with the information in Section 6.

<table>
<thead>
<tr>
<th>Regulatory Category</th>
<th>Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>The research does not involve greater than minimal risk [45 CFR 46.404].</td>
<td></td>
</tr>
</tbody>
</table>

33.4.1* Provide a justification for how the study complies with the selected requirement.

The study does not involve any dangerous physical activity. Further, the stimuli and questions used in the study are not scary or disturbing. Finally, none of the questions in the study ask for any personal information that could lead to embarrassment or upset in the unlikely event that the
protection of identified data was compromised.

33.5* Does the study require the involvement of children with any physical or mental incapacities?

☐ Yes ☐ No

41. Subjects Vulnerable to Coercion

Completion of this section is required based on the response provided to question 9-1.1, 9-2.1, or 9-3.1

The following subject populations, vulnerable to coercion or undue influence, have been identified for inclusion in the study.

Children

41.1* What is the justification for the inclusion of these subject populations?

The central question involved in this study is how children think about revenge. Thinking about this issues is expected to change over the course of early to middle childhood, and such developments are of great interest in this research. Thus, the core research questions could not be answered without the inclusion of children.

41.2* Describe the additional safeguards that have been included in this study to protect the rights and welfare of these subjects.

An assent script will be used to supplement the parental consent process. Thus, even if a parent wants their child to take part, the child has the chance to say yes or no. The experimenter will never run a child through the study if the child does not assent. Furthermore, if the child assents after being pushed to do so by a parent or any other person (e.g., an older sibling, an aunt, etc), the experimenter will gently inform the adults present that it's okay if the child does not want to take part in the study. Finally, if a child who is taking part in the study looks uncomfortable, distracted, or bored, the experimenter will cut the study short (while acting like the child simply completed the study, to avoid embarrassing the child).

44. Additional Supporting Documents

44.1 Please upload any additional supporting documents related to your study that have not already been uploaded. Examples include, but are not limited to, data collection sheets, newsletters, subject brochures, and instructional brochures.

Name
Version

There are no items to display

45. End of Application

The form was successfully submitted. Click 'Exit' or 'Finish' to leave the form.