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 Reasoning Toward Novel Stereotypes

1.1.1 Full Study Title:
Children's Reasoning Toward Novel Stereotypes

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:
Steven Roberts
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 Friend Account Required?</th>
<th>COI Review Required?</th>
<th>Edit Rights Accepted Role?</th>
<th>PEERRS Human Subjects?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steven Roberts</td>
<td>PI</td>
<td></td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>N/A</td>
</tr>
<tr>
<td>Susan Gelman</td>
<td>Faculty Advisor</td>
<td>LSA Psychology</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Elizabeth Garcia</td>
<td>Research Staff</td>
<td></td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Ji Yoon Lee</td>
<td>Research Staff</td>
<td></td>
<td>N/A</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Jacqueline Leeka</td>
<td>Research Staff</td>
<td></td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Kerrie Leonard</td>
<td>Research Staff</td>
<td></td>
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<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Kevin Ma</td>
<td>Research Staff</td>
<td></td>
<td>N/A</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Tiffany Valencia</td>
<td>Research Staff</td>
<td></td>
<td>N/A</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>
1.8* Project Summary:
This study aims to explore children's reasoning about novel group stereotypes. The task used for this will be similar to those used by Rhodes (2012). Children will be shown images of two groups of fictional cartoon characters (i.e., Hibbles and Glerks). Each group will be presented as engaging in a specific activity (i.e., Hibbles eat orange berries, whereas Glerks eat green berries). Then, children will be shown individual characters who either engage in a same-group activity (e.g., Look, this Hibble is eating orange berries) or an other-group activity (e.g., Look, this Hibble is eating green berries). We will then ask child whether it is good or bad for the character to engage in the same- or other-group activity. We will then ask children to explain their reasoning, which we will record via an audio recorded. This task will examine children’s reasoning about individuals who endorse or violate the typical behavior of the group.

Research suggests that children believe that members of the same group are morally obligated to one another (Rhodes & Brickman, 2011), or are similar to one another (Bigler & Liben, 2007). However, previous research has not yet explored how children evaluate and explain when other groups, particularly fictional novel groups, act similarly (stereotype endorsement) or differently (stereotype violation) from their larger group.

1.9* Select the appropriate IRB:
Health Sciences and Behavioral Sciences

1.10* Estimated Study Start Date (Not required for IRB MED): (mm/dd/yyyy)
3/19/2015

1.11* Estimated Duration of Study:
08/20/2017

01-1. Application Type

1-1.1* Select the appropriate application type.
Standard, non-exempt, research project

01-2. Standard Study Information

1-2.1* Who initiated this study?
Student investigator or faculty member on behalf of a student

If other, please specify:

1-2.2* Are you or any students working on this project being paid from a federally funded training grant?

☐ Yes  ☐ No

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.

LSA Psychology

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

1-2.7* Is this a clinical trial?

☐ Yes  ☐ No

01-7. Student Research Information

1-7.1* This application is being submitted by a:
Select all that apply:
Student for a dissertation/thesis
Student for a mentored research project (e.g. K award)

1-7.2 Indicate course number here:

Study Team Detail

1.4 Team Member:
Steven Roberts
Preferred email: sothello@umich.edu
Business phone
Business address: LSA Psychology 1343 East Hall 48109-1043

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>
</tr>
</thead>
<tbody>
<tr>
<td>Steven Roberts - CV</td>
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</tbody>
</table>

---

**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, 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.

Name                      Version

gelman CV | History          0.01

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:
Elizabeth Garcia
Preferred email: egarciar@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.

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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- Part of the work on this project will be subcontracted to the outside entity
- 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:
Ji Yoon Lee
Preferred email: lejiyoon@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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<td>Ji Yoon Lee</td>
<td>History</td>
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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.
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:
Jacqueline Leeka
Preferred email: jleeka@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 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, 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:**

Kerrie Leonard  
Preferred email: kleona@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.

<table>
<thead>
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<th>Name</th>
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<tbody>
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<td>Kerrie Leonard - Resume</td>
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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.

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:

Kevin Ma

Preferred email: kevma@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.

Name: Kevin Ma - Resume | Version: 0.01

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, 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:

Tiffany Valencia  
Preferred email: valenct@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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<thead>
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<th>Name</th>
<th>Version</th>
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<tbody>
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<td></td>
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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.

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
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>
<tr>
<th>Type</th>
<th>Department Sponsor</th>
<th>Support Type</th>
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<tbody>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.)
- Observation of behavior (direct or indirect)
- Qualitative research (e.g., 'member checking', open-ended questions, etc.)
- Primary or secondary analysis (data/specimen)
- Storage (data/specimen)

If other, please specify.

---

**03-1. Performance Sites**
### Performance Sites:

<table>
<thead>
<tr>
<th>Location</th>
<th>Country</th>
<th>&quot;Engaged&quot; in the research?</th>
<th>Site Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ann Arbor Hands on Museum</td>
<td>USA</td>
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<td>Qualitative research, Interaction, Observation, Recruitment</td>
</tr>
<tr>
<td>Museum of Natural History</td>
<td>USA</td>
<td>no</td>
<td>Qualitative research, Interaction, Observation, Recruitment</td>
</tr>
<tr>
<td>University of Michigan</td>
<td>USA</td>
<td>yes</td>
<td>Qualitative research, Storage, Interaction, Analysis, 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)
- Qualitative research (e.g., 'member checking', open-ended questions, etc.)

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).**

**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>Hands on Museum - Site Approval</td>
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https://eresearch.umich.edu/eresearch/ResourceAdministration/Project/PrintSmartForms?Project=com.webridge.entity.Entity%5BOID%5B311DD11FC36A...
Performance Site Detail

3-1.2* Location or Institution:
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)
Qualitative research (e.g., 'member checking', open-ended questions, etc.)

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).

3-1.8 Upload any location site approval documentation here:
Name
MNH - Site Approval | History
Version
0.01

Performance Site Detail

3-1.2* Location or Institution:
University of Michigan

3-1.3 Address:
City
State
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)
Qualitative research (e.g., 'member checking', open-ended questions, 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:

There are no items to display

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>
<tr>
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<td>History</td>
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5.1.2* Indicate the section where each of the following are covered in the attached protocol:

<table>
<thead>
<tr>
<th>Objective</th>
<th>see &quot;Objective&quot;</th>
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<tbody>
<tr>
<td>Specific Aim/Hypothesis</td>
<td>see &quot;Specific Aim/Hypothesis&quot;</td>
</tr>
<tr>
<td>Background Information</td>
<td>see &quot;Background Information&quot;</td>
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<tr>
<td>Methodology</td>
<td>see &quot;Methodology&quot;</td>
</tr>
<tr>
<td>Statistical Design</td>
<td>see &quot;Statistical Design&quot;</td>
</tr>
</tbody>
</table>

5.1.3* Study team Experience: Briefly outline the experience and competence of the study team to pursue the proposed study.
Steven Roberts is a doctoral candidate in developmental psychology. He has worked on a number of research projects as an undergraduate at New York University and as a research assistant at the University of North Carolina – Chapel Hill. He has experiences leading a data collection and management team in New York City, and will therefore lead all recruitment and data collection initiatives. He is an investigator on several IRB approved studies here at the University of Michigan.

Susan Gelman is Steven Roberts’s faculty advisor and has a Ph.D. in developmental psychology. She has conducted studies of children’s early cognitive development over the past 20 years and has written over 100 journal articles and several books in this field.

All research assistants in this study are undergraduate students at the University who are interested in psychological research. Moreover, they will all be trained and supervised extensively throughout the entire process.

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)

There is no exclusion criteria.

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 participants will be excluded on the basis of their race, ethnicity, or gender.

Notably: We do not plan on running undergraduates (at least not until September). Therefore, we would like to upload consent forms for the Subject Pool at that time. We will not run any participants through Subject Pool until then (see also bottom of research design document for this exact text).

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.

This research study will have several benefits to society. (1) Understanding how children reason about social categories has important implications for understanding the development of prejudice, stereotypes, and ingroup/outgroup biases. (2) Furthering our understanding of the development of children’s reasoning about social categories can guide interventions and early education programs that target the promotion of multiracial and cultural sensitivity between and within societies. (3) This research will benefit the larger society by providing researchers, educators, and parents with an understanding of children’s early cognitive processes and social experiences and how these factors contribute to their reasoning about social categories.
6.2 * Will results of the research be communicated back to the subjects?

- Yes
- No

6.2.1 * Explain the plan and process.

Participants who give their consent will be given the option to give us their email address so we can send them an abstract of the completed project.

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

None.

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 HUM00100032</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.)

HUM00100032

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%):

The testing procedures that will be used in this study present no apparent physical, psychological, social, legal, or other risks to the participants. For all testing procedures, children will be in the presence of a trained research assistant, and if requested, at least one familiar adult at all times. We protect against risk in several ways. First, the tasks are designed to be engaging and fun, thereby reducing the likelihood of boredom and/or fatigue. Second, the objects and images we present are nonthreatening (e.g., images of weapons or frightening items are never presented as stimuli). Third, we describe, in child sensitive language, what the tasks will involve before the child begins. For example, "In this game, we're going to look at pictures and I'm going to ask you questions about them. OK?" Fourth, if any participant wishes to stop at any time, they will be excused and their data will be destroyed.

**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.**

The risks are minimal, the research procedure is likely to be fun and enjoyable, participants will have the opportunity to learn about themselves and/or their children, and there are benefits for society.

**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 subjects 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]
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:

3000

8.2* Enter the estimated number of subjects to be enrolled at each University of Michigan site:

<table>
<thead>
<tr>
<th>Location Or Institution</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ann Arbor Hands on Museum</td>
<td></td>
</tr>
<tr>
<td>Adults</td>
<td>0</td>
</tr>
<tr>
<td>Children</td>
<td>1000</td>
</tr>
<tr>
<td>Museum of Natural History</td>
<td></td>
</tr>
<tr>
<td>Adults</td>
<td>0</td>
</tr>
<tr>
<td>Children</td>
<td>1000</td>
</tr>
<tr>
<td>University of Michigan</td>
<td></td>
</tr>
<tr>
<td>Adults</td>
<td>1000</td>
</tr>
<tr>
<td>Children</td>
<td>0</td>
</tr>
</tbody>
</table>

Total from all University of Michigan sites: 3000

08-1. Subject Recruitment

8-1.1* At what point in the study are you planning on beginning the recruitment of subjects?
8-1.2* Indicate which of the following established subject pools, if any, will be used for recruitment.

Select all that apply:

UM Ann Arbor Introductory Psychology Pool

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.

Children and their parents will also be recruited through the Living Laboratory at the Hands On Museum and the Museum of Natural History in Ann Arbor. The researchers will arrange a lab setting within the museum where children and their parents will be asked to participate.

Adults will be recruited from the UM Introductory Psychology Subject Pool and from the Paid Subject Pool maintained by the Psychology Department. These lists change each term, since participants need to sign up each term in order to be a member of either list. Adult undergraduate participants will be recruited through flyers posted inside of the psychology building and related campus buildings. These flyers will have contact information and a brief description of the study for undergraduates interested in participating. Adults undergraduates will also be recruited through the Introductory Psychology Subject Pool.

The investigative team has extensive experiences in conducting research with children. Susan Gelman, the faculty advisor, is a developmental psychologist who conducts nearly all of her research with children of the ages in the proposal, using methods developed from and building on her previous research, which also are the foundation for the methods and theoretical framework employed in this study.

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?

Not applicable.

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.

Because we are interested in children and adult samples, recruiting at children's museums and from an introductory subject pool will give us the sample we need.

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.)

Other

If other please specify:
Subject Pool

8-1.7 How will any email, address, and/or telephone lists be obtained?
We will give parents the opportunity to provide us with their email address so that we may send them a research abstract once the study has been completed.

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:

- Oral scripts
- None

If other please specify:

At the museum sites, parents will be approached and told:

"Hi, my name is [research assistant name] and I am from the Psychology department. Today we are doing a short study on how children think and learn about social categories. Specifically, we are looking at how children evaluate and explain group behaviors. Would you and your child be interested in participating?"

If parents say "yes", they will be given the consent form that describes the study in greater detail.

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):

Upload recruitment materials here:

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child recruitment script</td>
<td>0.01</td>
</tr>
</tbody>
</table>

☐ 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
- Comprehensive oral

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.

For adult participants who are recruited from the UM Introductory Psychology Pool: A member of the approved study team for this project will explain the study to the participant, give them instructions, obtain consent, debrief them about the purposes and goals of the study, and answer any other questions that they might have.

At the AAHOM & MNH sites, parents will be approached and told about the purpose of the study (e.g., Hi, my name is [research assistant name]! I’m from the psychology department at the University of Michigan, and today we're conducting a study on how children learn and think about others. Would you and your child be interested in participating?). If parents and children indicate yes, they will be given a consent form and told more about the study.

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).

All children will be read oral assent before the start of the task. The script reads:

“My name is ___ and I’m interested in how children learn and think. Your parents said that it is okay for me to work on this fun project with you. In this project, I’m going to show you some pictures and ask you some questions about them. You can tell me when you don’t want to play anymore. Would you like to work on this project with me?”

We will only proceed with children who say yes.
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’s assent will be obtained as part of the procedure. Because our primary target population is very young (primarily 3-10 years of age), we will obtain oral assent.

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.

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.

Name | Version
--- | ---
AAHOM - Consent - Novel Stereotypes | 0.03
Child Assent (AAHOM & MNH) | 0.02
Children's Debriefing - Novel Hypodescent | 0.01
MNH - Consent - Novel Stereotypes | 0.02

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:

- No anticipated costs

If other, please specify:

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

- Yes  - No

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.

Identifying information will not be stored with the data. Only trained research assistants will have access to the data.

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
- Restricted access
- Individual ID plus password protection
- Security software (firewall, anti-virus, anti-intrusion) is installed and regularly updated on all servers, workstations, laptops, and other devices used in the project

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:

- Retain for study recordkeeping purposes

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.
The data will be stored in Dr. Gelman's lab, and only trained research assistants will have access to the data.

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).

We will end participation in the study of a participant (adult, parent or child) indicates that they do not wish to continue.

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, their data will be destroyed.

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:

Course credit
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.

Once - immediately after completing the study.
13.5* What is the justification for offering these payments or incentives?
Undergraduates recruited through the psychology subject pool will receive 30 minutes of Introductory Psychology Subject Pool credit.
Children will be compensated for their time with a small toy.

13.6* What is the plan to compensate subjects withdrawing from the research prior to completing the entire study.
Subjects who withdraw from the research will still be given the same compensations as those who complete the study.

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:

<table>
<thead>
<tr>
<th>Name</th>
<th># of Questions</th>
<th>Duration</th>
<th>Sensitive?</th>
<th>Disturbing?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Novel Stereotypes Evaluation and Explanation Task</td>
<td>25</td>
<td>5 to 10 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:
Novel Stereotypes Evaluation and Explanation Task

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.
In person

29.5* What is the predicted response rate?
100 %
29.6* What is the total number of questions?
25

29.7* What is the anticipated cumulative amount of time required for each subject?
5 to 10 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

29.12* Upload the survey instrument here.

<table>
<thead>
<tr>
<th>Name</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Novel Stereotypes Task</td>
<td>History</td>
</tr>
<tr>
<td></td>
<td>0.01</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Name</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Novel Stereotypes Task</td>
<td>History</td>
</tr>
<tr>
<td></td>
<td>0.01</td>
</tr>
</tbody>
</table>

☐ 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?

☑ Yes ☐ No

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
- 14-17 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.

Members of the study team will include graduate students, and/or undergraduate research assistants who have extensive experience working with preschool children, and who receive extensive training on the task protocols.

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

The Living Lab has data collection stations at both museum sites, which are friendly and appropriate for children. Thousands of children have already been interviewed there.

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 potential risks will not exceed those ordinarily encountered in daily life. Potentially these include slight boredom or fatigue that would come from mental exertion (though we minimize these; see below). The tasks that we provide to children are presented in a fun, game-like context, and the tasks are deliberately kept short (typically no more than 515 minutes in length) so as to maintain children's attention. The experimental tasks involve looking at objects or pictures of cartoon characters, animals, foods, artifacts, or people, and answering simple questions. We protect against risks in several ways. First, the studies are designed to be maximally engaging and fun, thereby reducing possible boredom or fatigue. Second, the objects and pictures we present are nonthreatening (for example, we never include weapons or frightening items in our stimuli sets). Third, written parental permission is required for each child who participates, and written subject permission is required for each adult who participates. Fourth, we briefly describe, in child-friendly language, what the task involves before the child begins. For example, "In this game, we're going to look at pictures and I'm going to ask you questions about them. OK?" Fifth, any participant (child or adult) is excused from participation at any time, if they wish to stop. Sixth, all participation is anonymous.

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

- [ ] Yes  
- [x] No

40. College Students (under 18)

Completion of this section is required based on the response provided to question 9-1.1.
40.1* How will informed consent be obtained from the parents/guardian of any student under the age of 18?

For the intro psych subject pool: We will abide by the rules of the subject pool. The coordinator of the subject pool obtains parental consent or the student cannot be a part of the subject pool. For further information, please contact subject.pool@umich.edu.

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
- College Students

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

We are interested in examining children’s reasoning about social categories, and how this reasoning is influenced by their social and cultural backgrounds. We also include college students in order to examine how development changes over time. Therefore, we have to include children and adults in this research.

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

Only children who willingly go with the researcher to participate in the study will be asked to participate. They will be read the oral assent so they have the opportunity to stop the task at any time.

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.

<table>
<thead>
<tr>
<th>Name</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>There are no items to display</td>
<td></td>
</tr>
</tbody>
</table>

45. End of Application

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