



## OFFICE OF THE VICE CHANCELLOR FOR RESEARCH

Office for the Protection of Research Subjects  
805 W. Pennsylvania Ave., MC-095  
Urbana, IL 61801-4822

### Notice of Approval: New Submission

May 1, 2019

<b>Principal Investigator</b>	Michael Bailey
<b>CC</b>	Deepak Kumar, Kirill Levchenko, Paul Murley, Joshua Mason, Joshua Reynolds
<b>Protocol Title</b>	<i>Building a Map of DNS Resolvers Around the World</i>
<b>Protocol Number</b>	19739
<b>Funding Source</b>	ICR
<b>Review Type</b>	Exempt 2
<b>Status</b>	Active
<b>Risk Determination</b>	No more than minimal risk
<b>Approval Date</b>	May 1, 2019
<b>Closure Date</b>	April 30, 2024

This letter authorizes the use of human subjects in the above protocol. The University of Illinois at Urbana-Champaign Institutional Review Board (IRB) has reviewed and approved the research study as described.

The Principal Investigator of this study is responsible for:

- Conducting research in a manner consistent with the requirements of the University and federal regulations found at 45 CFR 46.
- Using the approved consent documents, with the footer, from this approved package.
- Requesting approval from the IRB prior to implementing modifications.
- Notifying OPRS of any problems involving human subjects, including unanticipated events, participant complaints, or protocol deviations.
- Notifying OPRS of the completion of the study.

# Exempt Form

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**IRB Number:**

## Human Subjects Research – Exempt Form

**Guidelines for completing this research protocol:**

- Please submit typed applications via email. Handwritten forms and hard copy forms will not be accepted.
- For items and questions that do not apply to the research, indicate as “not applicable.”
- Provide information for all other items clearly and avoid using discipline-specific jargon.
- Please only include text in the provided boxes. The text boxes will expand as they are typed in to accommodate large amounts of text.
- Ensure that your research qualifies as exempt. Exempt categories of research can be viewed [here](#). If the proposed research does not qualify in any of these categories, please complete and submit the [Protocol Form](#).

**Before submitting this application, ensure that the following have been completed.**

- Exempt Form is complete.
- Relevant CITI modules have been completed for all members of the research team at [www.citiprogram.org](http://www.citiprogram.org).
- Informed consent/assent/parental permission document(s) are provided.
- Recruitment materials are provided.
- Research materials (e.g. surveys, interview guides, etc.) are provided.
- Any relevant letters of support are provided.

Instructions on the exempt review process and guidance to submitting applications, can be found on the OPRS [website](#). You may also contact OPRS by email at [irb@illinois.edu](mailto:irb@illinois.edu) or phone at 217-333-2670.

**Submit completed applications via email to:** [irb@illinois.edu](mailto:irb@illinois.edu).

OFFICE FOR THE PROTECTION OF RESEARCH SUBJECTS		UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN	
805 West Pennsylvania Avenue, MC-095, Urbana, IL 61801	T 217-333-2670	<a href="mailto:irb@illinois.edu">irb@illinois.edu</a>	<a href="http://www.irb.illinois.edu">www.irb.illinois.edu</a> Revised: 12/3/18



# Exempt Form

## Section 1: PRINCIPAL INVESTIGATOR (PI)

The Illinois [Campus Administrative Manual](#) allows assistant, associate, and full professors to act as PI. Other individuals may serve as PI after obtaining approval from the necessary party.

Last Name: Bailey	First Name: Michael	Degree(s): PhD	
Dept. or Unit: ECE	Office Address: Coordinated Science Laboratory 444		
Street Address: 1308 W. Main Street	City: Urbana	State: IL	Zip Code: 61820
Phone: 217-244-8830	E-mail: mdbailey@illinois.edu		

Urbana-Champaign Campus Status:  
 Non-visiting member of (Mark One)  Faculty  Academic Professional/Staff  
*(Student Investigators cannot serve as PI)*

Training  
 Required CITI Training, Date of Completion (valid within the last 3 years), 2/16/2018  
 Additional training, Date of Completion,

## Section 2. RESEARCH TEAM

**2A. Are there other investigators engaged in the research?**  
 Yes (include a [Research Team Form](#))  
 No

**2B. If yes, are any of the researchers not affiliated with Illinois?**  
 Yes  
 No

## Section 3. PROTOCOL TITLE

Building a Map of DNS Resolvers Around the World

## Section 4. FUNDING INFORMATION

**4A.** Is your research funded?  Yes  No  
 If no, is there a pending funding decision?  Yes  No

**4B.** If either of the above were answered yes, please indicate the funding agency: Dr. Michael Bailey ICR (ECE Dept)

**4C.** A copy of the funding proposal is included:  Yes

## Section 5. CONFLICTS OF INTEREST

Please indicate below whether any investigators or members of their immediate families have any of the following. If the answer to any of the following items is yes, please submit the University of Illinois approved conflict management plan. If you have any questions about conflicts of interest, contact [coi@illinois.edu](mailto:coi@illinois.edu).

<b>5A.</b> Financial interest or fiduciary relationship with the research sponsor (e.g. investigator is a consultant for the research sponsor). <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>5B.</b> Financial interest or fiduciary relationship that is related to the research (e.g. investigator owns a startup company, and the intellectual property developed in this protocol may be useful to the company). <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>5C.</b> Two or more members of the same family are acting as research team members on this protocol. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**Section 6. RESEARCH SUMMARY**

**6A. In lay language, summarize the objective and significance of the research.**

Almost all Internet systems rely on the Domain Name System (DNS) to function properly. DNS provides a mapping between human-understandable *domain names* (e.g., facebook.com.) and IP addresses (e.g., 157.240.2.35), which are series of numbers that uniquely identify the “location” of a remote server. Due to its importance, many researchers have studied and leverages DNS and its properties, from its latency [1], to its growing importance in online censorship [2,3]. To leverage DNS, Internet clients communicate with DNS *resolvers* – these are computers whose main responsibility is to look up IP addresses to domain names. Unfortunately, there are no up to date studies on the underlying map of the DNS space – that is, what DNS resolver do Internet clients use by default?

In this proposal, we investigate two primary questions about the DNS ecosystem:

1. What DNS resolvers do clients use by default?
2. When clients choose to use a DNS resolver that is *out of network*, why do they do this? Are there popular custom DNS resolvers that many clients use?

Answering these questions will illuminate the current state of DNS architecture, and will be useful for Internet scientists to build off for future research.

For this project, we will be collecting two pieces of information – the client IP address used to resolve domains and the IP address of the DNS resolver. For the client IP address, we take special precautions to anonymize the *last octet* of the IP address so it cannot be distinguished from anyone else in the same /24 subnetwork. This offers an anonymity set of 256 users, though in practice the set may be smaller. We do not anonymize the IP address of the DNS resolver – this is a typically shared infrastructure and cannot be tied back to any specific computer.

We note that while DNS data typically contains potentially sensitive information about user behavior (i.e., domain names looked up may reveal political affiliations or medical illnesses[4]), our experiment is specifically designed to only lookup domains in our control and solicit no other information from the Internet client.

To collect the data described, we will use a web advertisement campaign which loads a single domain under our control. The advertisement leverages JavaScript to request the domain under our control. We

# Exempt Form

note that while JavaScript has the potential to execute dangerous and sometimes malicious code, in this context we are making a single web request to a safe domain that we control. This process is thus identical to any other advertisement a user may see while browsing the web. While our measurements will require diversity in networks (ideally, globally), we will not target individuals or users based on any personal demographic information (e.g., gender, race, political affiliation, etc.)

- [1] Jung, Jaeyong et al., "DNS Performance and the effectiveness of caching". IEEE/ACM Transactions on Networking.  
 [2] Pearce, Paul et al., "Global measurement of DNS Censorship". 26<sup>th</sup> USENIX Security Symposium.  
 [3] Liu, Baojun et al., "Who is Answering My Queries? Understanding and Characterizing the Interception of the DNS Resolution Path". 27<sup>th</sup> USENIX Security Symposium.  
 [4] Basileal Imana et al., "Enumerating Privacy Leaks in DNS Data Collected Above the Recursive", ISOC NDSS Workshop on DNS Privacy

**6B. Indicate if your research includes any of the following:**

- Secondary data (use of data collected for purposes other than the current research project)  
 Data collected internationally (include [International Research Form](#))  
 Translated documents (include [Certificate of Translation](#) and translated documents)  
 Research activities will take place at Carle

**6C. Letters of support from outside institutions or entities that are allowing recruitment, research, or record access at their site(s) are attached.**  Yes  Not Applicable

**Section 7. PARTICIPANTS AND RECRUITMENT**

**7A. What is the estimated total number of participants?** 1 million

**7B. Select all participant populations that will be recruited, either intentionally or unintentionally.**

**Age:**

- Adults (18+ years old)  
 Minors (≤17 years old)  
 Specific age range, *please specify:*

**Gender:**

- No targeted gender (both men and women will be recruited/included)  
 Targeted gender, *please indicate:*  Men/boys  Women/girls  Other, *please specify:*

**Race/Ethnicity:**

- No targeted race or ethnicity (all races and ethnicities will be recruited/included)  
 Targeted race or ethnicity, *please specify:*

**College Students:**

- No targeted college population  
 UIUC general student body  
 Targeted UIUC student population, *provide the instructor or course information, name of the departmental subject pool, or other specific characteristics:*  
 Students at institution(s) other than UIUC, *please specify:*

*Any research with students on UIUC's campus needs to be registered with the [Office of the Dean of Students](#).*

**Other:**

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<input type="checkbox"/> People who are illiterate or educationally disadvantaged <input type="checkbox"/> People who are low-income or economically disadvantaged <input type="checkbox"/> People who are non-English speaking <input type="checkbox"/> Other, <i>please specify</i> :
<b>7C. Select all recruitment procedures that will be used.</b> <input type="checkbox"/> Student subject pool, <i>please specify</i> : <input type="checkbox"/> Email distribution <input type="checkbox"/> MTurk, Qualtrics Panel, or similar online population <input type="checkbox"/> US Mail <input type="checkbox"/> Flyers <input type="checkbox"/> Website ad, online announcement (e.g. eWeek), or other online recruitment <input type="checkbox"/> Newspaper ad <input type="checkbox"/> Verbal announcement <input checked="" type="checkbox"/> Other, <i>please specify</i> : Web HTML ads to collect data <input type="checkbox"/> Not applicable (secondary data only) <b>Drafts or final copies of all recruitment materials are attached.</b> <input checked="" type="checkbox"/> Yes
<b>7D. For each group of participants, describe the details of the recruitment process.</b> <p>We will collect data from users through web advertisements – though participants are not “recruited” in the traditional sense. We will use both the Google Ads platform and the Adroll platform to distribute the web advertisements. The data is collect when the ad loads on the webpage –their computer will make a DNS lookup to a safe domain that we control.</p> <p>[1] <a href="https://ads.google.com/">https://ads.google.com/</a>          [2] <a href="https://www.adroll.com/">https://www.adroll.com/</a></p>
<b>7E. Will subjects receive compensation or rewards before, during, or after participation?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>If yes, provide a brief description of compensation or rewards.</b>

## Section 8. RESEARCH PROCEDURES

<b>8A. Select all research methods and/or data sources that apply.</b> <input type="checkbox"/> Surveys or questionnaires, <i>select all that apply</i> : <input type="checkbox"/> Paper <input type="checkbox"/> Telephone <input type="checkbox"/> Online <input type="checkbox"/> Interviews <input type="checkbox"/> Focus groups <input type="checkbox"/> Field work or ethnography <input type="checkbox"/> Standardized written, oral, or visual tests <input type="checkbox"/> Taste or smell testing <input type="checkbox"/> Intervention or experimental manipulation <input type="checkbox"/> Recording audio and/or video and/or taking photographs <input type="checkbox"/> Materials that have already been collected or already exist, <i>specify source of data</i> : <input type="checkbox"/> <a href="#">HIPAA-protected data</a>
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<input type="checkbox"/> <a href="#">FERPA-protected data</a> <input checked="" type="checkbox"/> <a href="#">GDPR-protected data</a> <input type="checkbox"/> Other, <i>please specify</i> :
<b>8B. List all testing instruments, surveys, interview guides, etc. that will be used in this research.</b> - HTML5 advertisement that performs a DNS lookup <b>Drafts or final copies of all research materials are attached.</b> <input checked="" type="checkbox"/> Yes
<b>8C. List all locations where research will take place.</b> The web
<b>8D. List approximate study dates.</b> April 2019 – December 2019
<b>9E. What is the duration of participants' involvement?</b> One webpage load
<b>8F. How many times will participants engage in research activities?</b> One time
<b>8G. Narratively describe the research procedures in the order in which they will be conducted.</b> There is no participant involvement in this research procedure. Participants will see a web advertisement that displays our research groups' logo (attached). This advertisement will make a web request back to a safe domain that we control, and we will log an anonymized version of the client IP address as well as the full, un-anonymized IP address of the DNS resolver used to perform the lookup. We will solicit no additional information.

**Section 9. CONFIDENTIALITY AND PRIVACY**

<b>9A. How are participant data, records, or specimens identified when received or collected by researchers? Identifiers include, but are not limited to, name, date of birth, email address, street address, phone number, audio or video recordings, and SSN.</b> <input type="checkbox"/> No identifiers are collected or received <input type="checkbox"/> Direct identifiers <input checked="" type="checkbox"/> Indirect identifiers (e.g. a code or pseudonym used to track participants); Does the research team have access to the identity key? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>9B. Select all methods used to safeguard research records during storage:</b> <input type="checkbox"/> Written consent, assent, or parental permission forms are stored separately from the data <input type="checkbox"/> Data is collected or given to research team without identifiers <input type="checkbox"/> Data is recorded by research team without identifiers <input type="checkbox"/> Direct identifiers are removed from collected data as soon as possible <input type="checkbox"/> Direct identifiers are deleted and no identity key exists as soon as possible <input checked="" type="checkbox"/> Participant codes or pseudonyms are used on all data and the existing identity key is stored separately from the data <input type="checkbox"/> Electronic data is stored in a secure, UIUC-approved location, <i>please specify</i> <input type="checkbox"/> Hard-copy data is stored in a secure location On UIUC's campus, <i>please specify</i> <input checked="" type="checkbox"/> Other, <i>please specify</i> : No identity key is collected by the researchers. Data will be stored long-term on password-protected lab servers in the FERPA-compliant, access-controlled UIUC Advanced Computer Building. Data will also be on password-protected computers during analysis
<b>9C. How long will identifiable data be kept?</b> We will not collect no identifiable information.

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**9D. Describe provisions to protect the privacy interests of subjects.** For the client IP address, we take special precautions to anonymize the *last octet* of the IP address so it cannot be distinguished from anyone else in the same /24 subnetwork. This offers an anonymity set of 256 users, though in practice the set may be smaller. The anonymity set will always 256 IP addresses without the usage of secondary data (e.g., usage patterns of the IP address space). We note that we do not collect or use any secondary data in this study. In addition, we note that depending on how the IP address is being used, there may likely be hundreds or thousands of users behind a single IP address (through Network Address Translation), and so the likelihood of tracing back to an individual in this study is at max 1/256 but may be even smaller.

**9E. Describe the training and experience of all persons who will collect or have access to the data.** All researchers on this project have extensive experience in Internet science and conducting ethical measurements therein. The responsible primary investigator, Michael Bailey, has published over 60 academic papers, many of which involve human subjects and thus IRB approval. The secondary investigator (Deepak Kumar) is a third-year PhD student who has authored six conference publications. The other investigators are other graduate students, two undergraduate research assistants, two industry user experience researchers, and a research scientist collaborating with Michael Bailey. We intend to make the aggregate data available for other researchers who wish to validate our conclusions.

## Section 10. CONSENT PROCESS

**10A. Indicate all that apply for the consent process.**

- Written informed consent  
 Waiver of Documentation (signature) of Informed Consent  
 Online consent    Oral consent    Unsigned Information Sheet Provided

**Explain why a Waiver of Documentation is necessary:**

- Waiver of Informed Consent

**Explain why a Waiver of Informed Consent is necessary:**

This research involves no more than minimal risk. The only identifiable information collected from the user (their client IP address) will be anonymized and un-linkable back to a single individual. Based on the mechanism used to deploy the research (i.e., web advertisements), it would additionally be infeasible to request informed consent from any participant without heavily biasing the data to participants who, for example, click on advertisements. In addition, our web advertisements behave no differently than any other web advertisement a user may interact with on the web; it makes only two web requests to safe domains. As the value of this study comes from its scale and effectiveness in measuring the Internet client population, a waiver of informed consent is necessary.

**10B. List all researchers who will obtain consent from participants.** n/a

**10C. Describe the informed consent process.** n/a

**10D. Where will consent be obtained?** n/a

**10E. Will participants receive a copy of the consent form for their records?**

- Yes    No, if no, explain: n/a



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**10F. Indicate factors that may interfere or influence the collection of voluntary informed consent.**

- No known factors
- Research will involve students enrolled in a course or program taught by a member of the research team
- Research will involve employees whose supervisor(s) is/are recruiting participants
- Participants have a close relationship to the research team
- Other, *specify any relationship that exists between the research team and participants:*

**If applicable, describe the procedures to mitigate the above factors.****10G. Copies of the consent form(s) are attached.**  Yes  Not applicable**Section 11. DISSEMINATION OF RESULTS****11A. List proposed forms of dissemination (e.g. journal articles, thesis, academic paper, conference presentation, sharing within industry, etc.).**

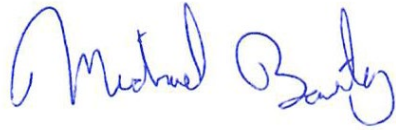
Information produced by this project will be disseminated through publication at a top tier computer science conference.

**11B. Will any identifiers be published, shared, or otherwise disseminated?**  Yes  No**If yes, does the consent form explicitly ask consent for such dissemination, or otherwise inform participants that it is required in order to participate in the study?**  Yes**11C. Do you intend to put de-identified data in a data repository?**  Yes  No**If yes, explain how data will be de-identified.** The only potentially identifiable information (client IP address) will be anonymized before dissemination of the data collected.**Section 12. EXPECTED COMPLETION DATE****12A. What is the expected completion date of this research?** Nov 2019**12B. Please note: Exempt protocols are given a closure date 5 years after their initial approval date, although researchers can request that the study remain open as the closure date approaches.****Section 13 INVESTIGATOR ASSURANCES**

I certify that the project described above, to the best of my knowledge, qualifies as an exempt study. I agree that any changes to the project will be submitted to the Office for the Protection of Research Subjects for review prior to implementation. I realize that some changes may alter the exempt status of this project.

**The original signature of the PI is required before this application may be processed (electronic signatures are acceptable).**

# Exempt Form



4/29/19

Principal Investigator

Date

**Section 14. DEPARTMENTAL ASSURANCE (OPTIONAL)**

If the PI is not eligible to serve as PI under the [Campus Administrative Manual](#), the applicable academic dean, institute director, or campus administrative officer indicates their approval of the researcher to act as Principal Investigator.

Applicable Authorizing Officer

Date

**For Listing Additional Researchers who are Involved in the Project****All forms must be typewritten and submitted via email to [irb@illinois.edu](mailto:irb@illinois.edu).**

**When to use this form:** If there are collaborating researchers participating in a research study, including those from other institutions, complete this form by listing all collaborating researchers. Include all persons who will be: 1) directly responsible for project oversight and implementation, 2) recruitment, 3) obtaining informed consent, or 4) involved in data collection, analysis of identifiable data, and/or follow-up. **Please copy and paste text fields to add additional research team members.**

Note:

- Changes made to the Principal Investigator require a revised [Protocol Form](#) and an [Amendment Form](#).
- A complete Research Team form with all research team members included needs to be submitted every time the research team is updated.

**Section 1. PROTOCOL INFORMATION**

<b>1A. Principal Investigator:</b> Michael Bailey
<b>1B. Protocol Number:</b>
<b>1C. Project Title:</b> Building a Map of DNS Resolvers Around the World

**Section 2. ADDITIONAL INVESTIGATORS**

<b>Full Name:</b> Kirill Levchenko	<b>Degree:</b> PhD	<b>Dept. or Unit:</b> ECE
<b>Professional Email:</b> <a href="mailto:klevchen@illinois.edu">klevchen@illinois.edu</a>		<b>Phone:</b>
<b>Campus Affiliation:</b> <input checked="" type="checkbox"/> University of Illinois at Urbana-Champaign <input type="checkbox"/> Other, <i>please specify:</i>		
<b>Campus Status:</b> <input checked="" type="checkbox"/> Faculty <input type="checkbox"/> Academic Professional/Staff <input type="checkbox"/> Graduate Student <input type="checkbox"/> Undergraduate Student <input type="checkbox"/> Visiting Scholar <input type="checkbox"/> Other, <i>please specify:</i>		
<b>Training:</b> <input checked="" type="checkbox"/> Required CITI Training, <b>Date of Completion</b> (valid within last 3 years): 29 April 2019 <input type="checkbox"/> Additional training, <b>Date of Completion:</b>		
<input checked="" type="checkbox"/> <b>This researcher should be copied on OPRS and IRB correspondence.</b>		

<b>Full Name:</b> Joshua Reynolds	<b>Degree:</b> B.S.	<b>Dept. or Unit:</b> CS
<b>Professional Email:</b> <a href="mailto:joshuar3@illinois.edu">joshuar3@illinois.edu</a>		<b>Phone:</b> 916-676-6076
<b>Campus Affiliation:</b> <input checked="" type="checkbox"/> University of Illinois at Urbana-Champaign <input type="checkbox"/> Other, <i>please specify:</i>		
<b>Campus Status:</b>		



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# Research Team

<input type="checkbox"/> Faculty	<input type="checkbox"/> Academic Professional/Staff	<input checked="" type="checkbox"/> Graduate Student	<input type="checkbox"/> Undergraduate Student
<input type="checkbox"/> Visiting Scholar <input type="checkbox"/> Other, <i>please specify</i> :			
<b>Training:</b>			
<input checked="" type="checkbox"/> Required CITI Training, <b>Date of Completion</b> (valid within last 3 years): 14 Sept 2017			
<input type="checkbox"/> Additional training, <b>Date of Completion</b> :			
<input checked="" type="checkbox"/> <b>This researcher should be copied on OPRS and IRB correspondence.</b>			

<b>Full Name:</b> Joshua Mason	<b>Degree:</b> PhD	<b>Dept. or Unit:</b> ECE
<b>Professional Email:</b> joshm@illinois.edu		<b>Phone:</b>
<b>Campus Affiliation:</b>		
<input checked="" type="checkbox"/> University of Illinois at Urbana-Champaign <input type="checkbox"/> Other, <i>please specify</i> :		
<b>Campus Status:</b>		
<input checked="" type="checkbox"/> Faculty <input type="checkbox"/> Academic Professional/Staff <input type="checkbox"/> Graduate Student <input type="checkbox"/> Undergraduate Student		
<input type="checkbox"/> Visiting Scholar <input type="checkbox"/> Other, <i>please specify</i> :		
<b>Training:</b>		
<input checked="" type="checkbox"/> Required CITI Training, <b>Date of Completion</b> (valid within last 3 years): Mar 5 2018		
<input type="checkbox"/> Additional training, <b>Date of Completion</b> :		
<input checked="" type="checkbox"/> <b>This researcher should be copied on OPRS and IRB correspondence.</b>		

<b>Full Name:</b> Deepak Kumar	<b>Degree:</b> B.S.	<b>Dept. or Unit:</b> CS
<b>Professional Email:</b> dkumar11@illinois.edu		<b>Phone:</b> 248-231-3575
<b>Campus Affiliation:</b>		
<input checked="" type="checkbox"/> University of Illinois at Urbana-Champaign <input type="checkbox"/> Other, <i>please specify</i> :		
<b>Campus Status:</b>		
<input type="checkbox"/> Faculty <input type="checkbox"/> Academic Professional/Staff <input checked="" type="checkbox"/> Graduate Student <input type="checkbox"/> Undergraduate Student		
<input type="checkbox"/> Visiting Scholar <input type="checkbox"/> Other, <i>please specify</i> :		
<b>Training:</b>		
<input type="checkbox"/> Required CITI Training, <b>Date of Completion</b> (valid within last 3 years): 4/9/19		
<input type="checkbox"/> Additional training, <b>Date of Completion</b> :		
<input checked="" type="checkbox"/> <b>This researcher should be copied on OPRS and IRB correspondence.</b>		

<b>Full Name:</b> Paul Murley	<b>Degree:</b> M.S.	<b>Dept. or Unit:</b> CS
<b>Professional Email:</b> pmurley2@illinois.edu		<b>Phone:</b> 512-569-4645
<b>Campus Affiliation:</b>		
<input checked="" type="checkbox"/> University of Illinois at Urbana-Champaign <input type="checkbox"/> Other, <i>please specify</i> :		
<b>Campus Status:</b>		
<input type="checkbox"/> Faculty <input type="checkbox"/> Academic Professional/Staff <input checked="" type="checkbox"/> Graduate Student <input type="checkbox"/> Undergraduate Student		
<input type="checkbox"/> Visiting Scholar <input type="checkbox"/> Other, <i>please specify</i> :		
<b>Training:</b>		
<input type="checkbox"/> Required CITI Training, <b>Date of Completion</b> (valid within last 3 years): 10/12/17		



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# Research Team

<input type="checkbox"/> Additional training, <b>Date of Completion:</b>
<input checked="" type="checkbox"/> <b>This researcher should be copied on OPRS and IRB correspondence.</b>

<b>Full Name:</b> Zane Ma	<b>Degree:</b> B.S.	<b>Dept. or Unit:</b> CS
<b>Professional Email:</b> zanema2@illinois.edu		<b>Phone:</b> (310)-498-0016
<b>Campus Affiliation:</b>		
<input checked="" type="checkbox"/> University of Illinois at Urbana-Champaign <input type="checkbox"/> Other, <i>please specify:</i>		
<b>Campus Status:</b>		
<input type="checkbox"/> Faculty <input type="checkbox"/> Academic Professional/Staff <input checked="" type="checkbox"/> Graduate Student <input type="checkbox"/> Undergraduate Student		
<input type="checkbox"/> Visiting Scholar <input type="checkbox"/> Other, <i>please specify:</i>		
<b>Training:</b>		
<input checked="" type="checkbox"/> Required CITI Training, <b>Date of Completion</b> (valid within last 3 years): 2/9/19		
<input type="checkbox"/> Additional training, <b>Date of Completion:</b>		
<input type="checkbox"/> <b>This researcher should be copied on OPRS and IRB correspondence.</b>		

