



IRB AMENDMENT FORM

For IRB Use only: IRB Protocol No.:
Amendment No.:

This form is to be used ONLY for an amendment to a previously approved research project. Complete all sections. If any questions are not applicable, indicate by 'N/A'. Attach a detailed explanation of the reason(s) you are seeking to modify your previously approved research project. Also attach any revised instruments, questionnaires, letters of cooperation, Informed Consent Forms (with current dates and signatures), etc., together with the originally approved version. If submitting a signed form, send by intercampus mail to OIC – Wannalancit 2nd floor, scan & e-mail to irb@uml.edu, or fax to 978-934-6012.

Project Title (of previously approved project): Middle School Pathways in Computer Science

Reason for amendment request: add two embedded assessments of computational thinking for student use during summer camp.

Date of initial approval by the IRB: 7/7/14

Date of last continuing review approval by the IRB: 7/7/15

The following change is proposed for the above-titled research project:

- () Principal Investigator has changed. From: to .
- () Co-PIs involved in project have been changed, added to, or removed
From: to .
- () Student Investigators or change in Research Personnel have been added (attach training certification)
Name(s):
- () Addition or deletion of funding source:
Added:
- Deleted:

(X) Addition or deletion of survey instruments, etc. Describe: We have two new embedded assessment instruments for this summer camp with students, `DebuggingAssessment2016.pdf` and `TemperatureAssessment.pdf`. They contain structured student activities, each with a learning outcome and research goal. Each activity consists of an unfinished App Inventor project for the students to complete, and a paper worksheet for the student to document their work. The "Debugging Assessment" provides an app similar to one the students will have previously worked on, with instructions to fix mistakes in it. The "Temperature Assessment" provides a Celsius/Fahrenheit unit converter app, missing the mathematical expression of the conversion, with instructions for the students to fill in the expression. Both activities will be conducted as a part of the summer camp, and operate under previously approved consent protocol. Each activity will take up to 30 minutes to complete.

- () Addition or deletion of segments of project. Describe:
- () Change in Title:

New Title:

(All forms that require the modification must also be submitted with the amendment.)

() Change in Methodology. Describe:

In some cases, the original protocol must also be submitted (using the track changes tool) to show the proposed change in relation to the original protocol.

() Change in number of participants. From: to .

() Addition or deletion of cooperating institutions.

Added:

Deleted:

() **Revised Informed Consent Form**, indicate the revision(s), reason for changes and include date of revisions on form (Revised form(s) must also be submitted with the amendment). We updated our teacher informed consent form to include a statement about participation in structured interviews, and to revise the date.

() Translated Materials, list all documents translated. (Certificate of Translation must also be signed and submitted).

() Other, explain:

Name of PI: Fred Martin	Date: 6/26/2016
PI Signature:	
OR (x) Check here if submitted electronically from the PI's email account.	