**RESPONSIBLE CONDUCT OF RESEACH**

The research experiences I have highlighted have enhanced my knowledge of human subjects protections in research. My proposed project will grant me more opportunities to grow my expertise in conducting ethical research as I progress towards my goal of being an independent socioaffective developmental neuroscientist.

**Format:** I will receive training in the responsible conduct of research by several means to ensure that I receive depth and variety in training necessary to adhere to the strict ethical guidelines necessary for social neuroscientists. I have completed several courses on the responsible conduct of scientific human subjects research throughout my career, including responsible research coordination training at both Johns Hopkins and the Children’s Hospital of Philadelphia (CHOP). I have been continuously certified by the Collaborative Institutional Training Initiative (CITI) since 2013 and have completed additional coursework on developmental research ethics. CITI training is required by the Temple Institutional Review Board every two years, and I complete this course once more during the proposed study. In addition, all research assistants involved in our laboratories are required to complete the CITI course, and therefore, all persons involved in the proposed study will be trained in the NIH guidelines for conducting responsible research. To supplement this knowledge, I will attend a seminar relevant to neuroimaging ethics at one of the summer workshops highlighted in my training plan during the course of my award. If I am unable to attend an ethical neuroimaging course at a summer workshop, I will attend the Society for Neuroscience’s Responsible Conduct of Research course. All research conducted in our laboratory is reviewed and approved by Temple University’s Institutional Review Board. Although I have had extensive training in responsible conduct of research during my career, I will continue my ethics training through formal coursework and under the supervision of my sponsors. Topics relating to the responsible conduct of research will be a central focus of my individual meetings with my mentor and co-mentor.

**Subject Matter:** Temple first-year graduate students are required to take a Professional Development Seminar, during which students and faculty discuss many core issues on this topic. During my first seminar, we discussed in detail the American Psychological Association’s Ethical Principles and Code of Conduct for Psychologists, including fidelity, responsibility, scientific integrity and responsibility for participant’s rights. Additionally, we had in-depth conversations about mentor/mentee relationships, responsible authorship and publication, peer review, and research misconduct. These discussions were led by established psychologists with many years of experience conducting research. Several of my other courses have discussed ethical conduct of human neuroimaging research. For example, in my fMRI methods course, we discussed the ethics of studying at-risk populations. We also have discussed the dissemination of information to the science community. As a graduate student, I have been involved in IRB-approved protocols procedures, and have recruited dozens of participants for behavioral testing and MRI scans. Throughout all of my predoctoral studies, I have adhered to all policies and protections outlined by Temple University regarding the responsible conduct of research and protection of human subjects. I will enroll in Temple University’s “Ethics and Ethical Conflicts in Psychological Science” course during both years in which the proposed project will occur. This course is faculty-led and will bolster my ethics knowledge for psychological research. I will have the opportunity in this course to discuss ethical dilemmas that I might encounter and create plans for addressing them. I will communicate with my mentorship team regarding my role and ability to adhere to these ethics in the project at every stage. Together, we will ensure that we are doing everything possible to treat our participants ethically and to maintain confidentiality for our participants’ data. During data analysis and publication, we will ensure that we agree on the analyses to be conducted and will clearly communicate our methods, to decrease the likelihood of unintentionally biasing our analyses.

**Faculty Participation:** Responsible conduct of research will be discussed in regularly scheduled meetings with my mentorship team. This will include open-sciences practices, processing and analyzing fMRI data, and participant interactions. By focusing on ethical research conduct in meetings with my training team, I will enhance my knowledge of responsible research conduct. I will be able to ensure that my research adheres to strict ethical

standards that are necessary when conducting human subjects research.

**Duration of Instruction:** Instruction in the responsible conduct of research will exceed the minimum 10 hours through the completion of two semesters of coursework (30 hours), open-science workshops (3 hours), and regular weekly meetings with Drs. Helion and Chein.

**Frequency of Instruction:** I will complete one ethics course per year, for the duration of this award, attend and host workshops weekly during the summers, speak with Dr. Helion monthly (at least) regarding ethical issues, and complete CITI training once more. I also will maintain IRB approval of all study procedures.