**RESPECTIVE CONTRIBUTIONS**

For this proposal

The ideas in this proposal are motivated by work from my lab demonstrating that uncertainty judgment formation could be modeled in the context of fMRI using naturalistic video stimuli. Based on our work and others exploring how uncertainty manifests in adults and children, I developed the research questions proposed in this grant, which I refined iteratively with Dr. Helion. I wrote the Specific Aims, which were revised and polished by Dr. Helion across multiple versions. I then wrote complete drafts of the research strategy, training plan, and all supporting documents, and refined them based on comments from Dr. Helion. Dr. Chein provided feedback on specific aims, study design and methodological approach over several meetings, conversations, and presentations. Dr. Smith provided feedback on methodological details of the study design. Dr. Steinberg, Dr. Chein, and Dr. Helion assessed, discussed, and provided feedback regarding the developmental relevancy and applications of this research into the K00 phase. As director of TUBRIC, Dr. Chein also assisted in determining enrollment feasibility and identifying the institutional resources available. All members of the research team have reviewed components of the current application and provided feedback that has been invaluable in shaping the final proposal.

For the proposed research

Drs. Helion, Chein, Smith, and Steinberg will advise me for the duration of the project and provide specific guidance for my career development. Drs. Helion and Chein will advise me on all aspects of the research during weekly meetings. I will present progress on this project at least once per semester during shared lab meetings to receive critiques and suggestions. Dr. Helion will specifically provide mentorship regarding the use of naturalistic stimuli within the context of fMRI. Dr. Chein will specifically mentor my use of MRI-related hardware and tools within TUBRIC; both in practical use (e.g., the steps I need to run a structural scan) and underlying theory (e.g., the physical and biological mechanics underlying structural scans). Drs. Smith and Helion will provide mentorship in the application of computational methods, specifically intersubject correlations but potentially other statistical tools as needed, to explore our outlined hypotheses. Dr. Smith will also mentor my pre-processing and adherence to open-science practices. Drs. Helion, Steinberg, and Chein will provide mentorship in the literature on the social developmental neuroscience. I will oversee the day-to-day execution of the project, including design, data collection, analysis, presentation, and writing, in consultation with my advisors.