Investigator: Matthew Kay

Support: Current
Project/Proposal Title: CHS: Small: Collaborative Research: Validating and
                                 Communicating Model-based Approaches for Data Visualization
                                 Ability Assessment
Source of Support: National Science Foundation
Total Award Amount: $238,848
Total Award Period Covered: 09/01/2018 – 08/31/2021
Location of Project: University of Michigan
Person-Months Per Year Committed to the Project: Cal.: 0   Acad: 0   Sumr: 0.5

Relationship to this proposal: This grant is a collaboration with Lane Harrison (WPI) on developing new methods for assessing visualization literacy based on perceptual tasks --- unlike the current proposal, it does not focus on uncertainty visualization in particular and is not concerned with developing formalisms for describing or constructing uncertainty visualizations (or visualizations in general).

Support: Pending
Project/Proposal Title: CHS: Small: Developing a Probabilistic Grammar of Graphics for
                                 Flexible Uncertainty Visualization
Source of Support: National Science Foundation
Total Award Amount: $500,000
Total Award Period Covered: 10/01/2019 – 09/30/2022
Location of Project: University of Michigan
Person-Months Per Year Committed to the Project: Cal.: 0   Acad: 0   Sumr: 1

Relationship to this proposal: is this proposal.

Support: Pending
Project/Proposal Title: SCH: INT: Making sense of personal health data: Supporting
                                 action-oriented end-user interpretation of type 1 diabetes with
                                 automated analysis and lightweight visualization
Source of Support: National Science Foundation
Total Award Amount: $1,199,052
Total Award Period Covered: 10/01/2019 – 09/30/2020
Location of Project: University of Michigan
Person-Months Per Year Committed to the Project: Cal.: 0   Acad: 0   Sumr: 1 (Yr 1&4)
                                                                                      0.5 (Yr 2&3)

Relationship to this proposal: This proposal is a collaboration with Mark Newman on developing end-user interfaces and visualizations to help type 1 diabetes patients manage their own care. Communicating uncertainty in the data effectively to those patients is a portion of the

work, but would involve the development of particular, domain-specific visualizations rather than a high-level formalism for describing an entire space of possible uncertainty visualizations, as in the proposal at hand.