

## **NIMBioS short-term visit report:**

### **Facilitating assessment of undergraduate quantitative biology skills**

We conceptualized the next phase for a project team working on assessment of quantitative literacy in biology education. The project team formed around the development and use of the Biological Science QUantitative Reasoning Exam (BioSQuaRE). Since developing and validating this instrument, the interests of this group have shifted towards thinking about the sustaining support for accessing and implementing assessment tools, increasing faculty awareness and understanding of these tools, and the role of assessment data in motivating and informing curriculum reform. At NIMBioS, we reviewed currently available assessment instruments and developed a metadata scheme for categorizing information about these tools. We developed a workflow for publicly sharing this information at <https://qbear.netlify.com/>. We conceptualized next stages in seeking engagement and collaboration with the broader biology education community.

#### Participants:

- Kristine Grayson
  - University of Richmond, Department of Biology; [kgrayson@richmond.edu](mailto:kgrayson@richmond.edu)
- Erik Larson
  - Macalester College, Department of Sociology; [larsone@macalester.edu](mailto:larsone@macalester.edu)
- Overvoorde, Paul
  - Macalester College, Department of Biology and Vice Provost and Associate Dean of the Faculty; [overvoorde@macalester.edu](mailto:overvoorde@macalester.edu)
- Liz Stanhope
  - Lewis & Clark College, Department of Mathematical Sciences; [stanhope@lclark.edu](mailto:stanhope@lclark.edu)
- Andrew Zieffler
  - University of Minnesota, Department of Educational Psychology; [zief0002@umn.edu](mailto:zief0002@umn.edu)