

Plants by the Numbers

Growing Quantitative Literacy Using Botany

BSA and QUBES Faculty Mentoring Network
Spring 2018

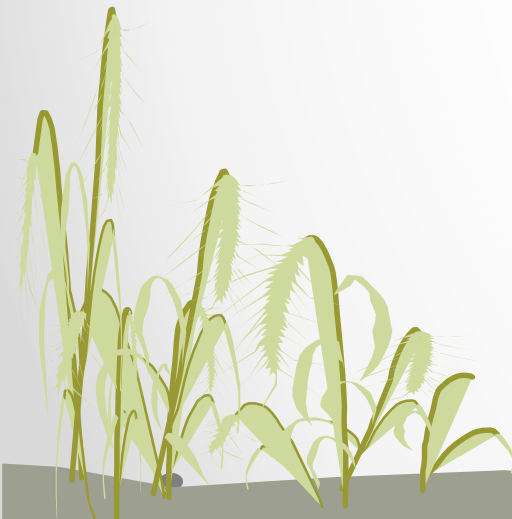


BOTANICAL SOCIETY OF AMERICA



QUBES

The Power of **Biology** × **Math** × **Community**



Who are we?

- J Phillip Gibson

- Mentor

- Catrina Adams

- BSA Liaison

- QUBES Liaisons

- Deb Rook

- Gaby Hamerlinck



Context for BSA/QUBES partnership

- Data is everywhere in Life Sciences
- Larger datasets available more often
- Data literacy and quantitative skills in Vision & Change and NextGen
- Enhance student skills through faculty implementation
- Faculty Mentoring Networks aid that connection



What are Faculty Mentoring Networks (FMNs)?

- Online groups of ~10-15 faculty members, focused on a specific topic or material
- Led by expert content mentors, peer mentors, and QUBES liaisons
- Meet biweekly over several months



What are Faculty Mentoring Networks (FMNs)?

- Long-term support through the difficult implementation phase of reform
- A community of peers that provide social support
- Bringing together individuals to build a rich resource base to work from
- Encouraging individuals to publicly share teaching materials

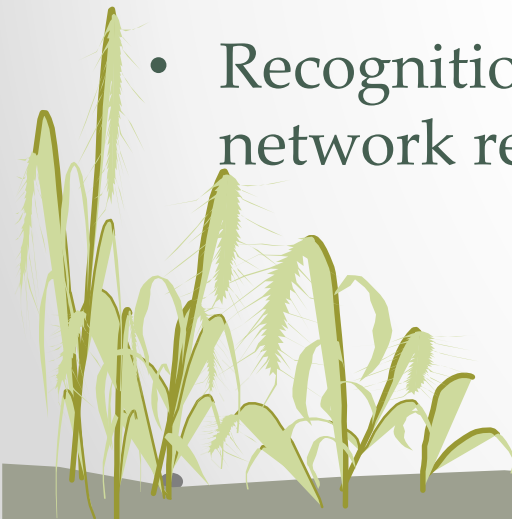




Google My Maps

Benefits of Participating

- Support for further development of pedagogical material focused on bringing research data into the life science classroom
- Access to peer mentors on lecture/classroom/lab effective tips and strategies in small group virtual meetings every two weeks
- Recognition as an 2018 BSA Education Scholar upon completion of all network requirements



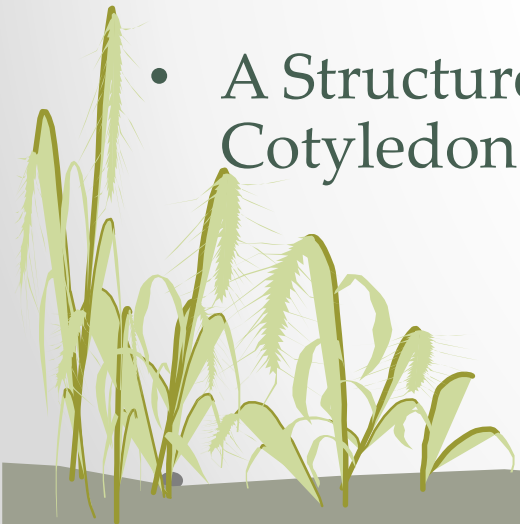
Expectations of Participants

- Participate in full FMN (Jan-May 2018), including biweekly online meetings and forum discussions
- Implement at least two of the selected botany modules in their course(s)
- Share materials on the QUBES Hub
- Share teacher notes and applicable classroom materials to receive the 2018 BSA Education Scholar title



Selected Modules

- Food Chain Dynamics In A Simple Ecosystem
- Morphological and Molecular Analysis of Plant Phylogeny and Diversity
- A Structured Inquiry Approach to Cotyledon Phenotyping
- Seed Dispersal in Tropical Forests
- Terrestrial Trophic Cascades & Population Structure
- Transpiration



Plants by the Numbers

Growing Quantitative Literacy Using Botany

<https://qubeshub.org/groups/bsa2018/apply>

Deadline - November 27th

Questions- deb.rook@bioquest.org



Apply Now



Sign up for the QUBES newsletter
to stay informed of upcoming
opportunities

www.qubeshub.org/register

