QUBES
The Power of Biology × Math × Community

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ROW Recap

Each week we feature an outstanding educational resource. All resources featured in the Resource of the Week (ROW) have been plucked from the large and growing collection of open education resources (OER) that are freely available on QUBES. Most resources have open licenses, allowing you to easily find, use, and adapt the materials.

Subscribe to the ROW. You do not need a QUBES account to subscribe!

Browse all past ROWs

Browse the entire OER Collection

Quantifying and Visualizing Campus Tree Phenology
By Nathan Emery, Caleb Trujillo, Andrew Jarosz, and Tammy Long

This lesson, published on CourseSource, enables student teams to collect, quantify, and analyze observable seasonal changes in nature.

In this newsletter:

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-Attend the ASCN webinar on "Spreading Evidence-Based Instructional Practices: Leveraging Peer Observation for Institutional Change"

-Submit a proposal for the 11th Annual Biology Education Research Symposium at 2019 NABT

-Apply to be a PALM Fellow by July 30 to receive mentoring in teaching

-Attend the 20th annual conference on case study teaching in science

Featured QUBES Partner of the Month: Genomics Education Alliance

Actually, Data Science CAN Be Accessible: Barriers to inclusion of people with disabilities in the data science workforce pipeline and ideas for lowering them
By Andrew Osborne Hasley

This is a presentation from the recent Environmental Data Science Inclusion Network (EDSIN) conference. It draws on the author's personal experience as a student and professional with a severe visual impairment and knowledge gained from colleagues and friends during ongoing efforts in the area of accessible teaching in quantitative biology.

Exploring the population dynamics of wintering bald eagles through long-term data
By Julie Beckstead, Alexandra Lagasse, Scott Robinson

Students address the research question: How does a bald eagle population change over time at a winter migratory stopover and which factors influence its abundance? This module was originally published in the Ecological Society of America's teaching journal, *Teaching Issues and Experiments in Ecology*.

QUBES partners with organizations and groups who are doing exciting things in undergraduate education. Every so often we select one of these partners to feature in our newsletter to raise awareness of their work, celebrate recent activities, and announce upcoming opportunities.

This month's featured QUBES partner is the Genomics Education Alliance (GEA). GEA is a Research Coordination Network in Undergraduate Biology Education (RCN-UBE) that seeks to increase and enrich the teaching of genomics and genomics-related subjects in undergraduate biology education. To learn more about the vision of GEA, read their recent white paper.

There are a couple of ways QUBES users can get involved with GEA:

Join the GEA on QUBES

GEA invites the community of researchers and educators working in genomics and related fields to join them in shaping this alliance.

Take a Survey

One of GEA's objectives is to better understand the needs of undergraduate educators who teach or may want to teach genomics. They will support these needs by organizing a common resource of software tools, documentation, assessments, and computational support. These resources would be focused on delivering genomics education in the context of course-based undergraduate research experiences (CUREs).

You can take the survey here.

Attend the GEA Progress Meeting

GEA will host a meeting on June 5–8, 2019 at Washington University in St. Louis to help identify and curate resources to ensure the sustainability of undergraduate education in bioinformatics and genomics. If you are interested in attending this meeting or future ones, please contact Douglas Chalker for more information.

Call for Fall 2019 Faculty Mentoring Networks

Faculty Mentoring Networks (FMNs) are long-term, low-intensity professional development opportunities hosted through QUBES. An FMN brings a small group of like-minded educators together to discuss pedagogy; share resources; adapt, implement, and share teaching materials; and create a community around a given topic. FMNs can broaden the impacts of your project, click here to see how!

We are currently recruiting for Fall 2019 FMNs with commitments needed by June 1. If you are interested in running one, please contact Deb Rook soon!

QUBES Near You

In QUBES Near You, we let you know which upcoming conferences or meetings the members of the QUBES team will be attending in case you'd like to connect with them. Members of Team QUBES are always looking to meet others who have a passion for quantitative biology education. See where they'll be this summer and don't forget to ask them for a QUBES sticker!

From left to right: Sam Donovan (Director of OER), Carrie Diaz Eaton (Director of QUBES Consortium), Kristin Jenkins (Director of BioQUEST), Elizabeth Hamman (QUBES Postdoc).

If you will be attending...	Feel free to look for...
Genomics Education Alliance Progress Meeting June 6-8 in St. Louis, MO	Sam Donovan
HITS Summer Workshop June 10-12 in Elon, NC	Sam Donovan
Evolution 2019 June 19-23 in Providence, RI	Kristin Jenkins
Gordon Research Conference in Undergraduate Biology Education Research June 23-28 in Bates, ME	Carrie Diaz Eaton Kristin Jenkins
2019 QUBES/BioQUEST Summer Workshop July 14-19 in Williamsburg, VA	The entire QUBES team!
Society for Mathematical Biology 2019 Annual Meeting July 21-24 in Montreal, Quebec, Canada	Carrie Diaz Eaton
Ecological Society of America/United States Society for Ecological Economics 2019 August 11-16 in Louisville, KY	Elizabeth Hamman

Attend the ASCN webinar on "Spreading Evidence-Based Instructional Practices: Leveraging Peer Observation for Institutional Change"

Thursday, May 30, 2019
9:00AM PT - 10:00AM MT - 11:00AM CT - 12:00PM ET

This webinar by the Accelerating Systemic Change Network (ASCN) is designed for STEM faculty, faculty developers (e.g., teaching and learning center staff), and disciplinary and institutional change leaders (e.g., department chairs, administrators at all levels, disciplinary association members and leaders). It may be of particular interest to those who are planning or currently implementing change efforts. Learn more and register by May 28.

Presenters: Stephanie Salomone, Heather Dillon, Eric Anctil, Tara Presholdt, and Valerie Peterson (University of Portland)

Submit a proposal for the 11th Annual Biology Education Research Symposium at 2019 NABT

The 11th annual Biology Education Research Symposium (sponsored by the National Association of Biology Teachers (NABT) Four Year University/College Section's Biology Education Research Committee) is now accepting proposals for presentations. Previous presentations have included case study research on teaching evolution, action research in a high school setting, and modeling in elementary students. This is a refereed session to be presented at the 2019 NABT Professional Development Conference on November 15, 2019 in Chicago. The format of the symposium will be a traditional presentation of papers by individuals or co-authors lasting 15 minutes each.

To read the full call for proposals and learn how to submit your own, please visit: https://nabt.org/Research-Symposium. The proposal submission deadline is June 16, 2019.

Apply to be a PALM fellow by July 30 to receive mentoring in teaching

The Promoting Active Learning and Mentoring (PALM) network is now accepting applications for PALM fellows. As a PALM fellow, you will develop your abilities to teach lecture courses using active learning by working with an experienced active learning instructor. Receive up to $2000 per Fellow / $500 mentor stipend / $1000 meeting travel each for Fellow and mentor.

For more information, including eligibility requirements, application details, and to learn
about how to be paired with a mentor if you don't have one in mind, visit palmnetwork.org. The next application deadline for 2019 is July 30, so apply soon!

Attend the 20th annual conference on case study teaching in science

The National Center for Case Study Teaching in Science is sponsoring the 20th annual conference on case study teaching in science on September 27-28, 2019 in Buffalo, NY at Buffalo Marriott Niagara. The conference offers sessions for both the beginner and advanced case study teacher and is formatted for college and high school teachers. Workshop sessions this year will cover teaching cases using backward design, multimedia learning principals, developing cases using biointeractive videos, high school methods of engaging students, and more! Check the website for a full listing of workshop sessions and session speakers.

Register and submit your poster session proposals by September 10, 2019. Included in this year's registration fee is a one-year subscription to the National Center for Case Study Teaching case study collection teaching notes and answer keys.

Do you have a product or result from a QUBES sponsored activity? Help us measure our success by sharing your product or result with QUBES. Learn how to cite QUBES.

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