Faculty Showcase: Program
Thursday, October 21, 2021: 4:30-6pm

Laurie Baker, DCS
*Data Visualizatio*n: Demonstrates the use of RStudioCloud and GitHub Classroom to help students use data to develop temporal and spatial models.

Jon Cavallero, RSS
Bates Film Festival: Learn more about the Bates Film Festival, established in 2018. This demonstration will showcase trailers and visual materials from the festivals to date.

Raluca Cernahoschi, German and Russian Studies. **Coram Lobby**
Introducing Lingco: Lingco is a cloud-based LMS for Language Instruction. It has been implemented by a group of instructors from different colleges and universities piloting the software for the authors of *Impuls Deutsch I* (Klett). This session demonstrates the innovative features of the platform in the context of a prepackaged course book .

Carrie Diaz Eaton, DCS
Open Education as a Liberatory Tool: Open education is an educational philosophy that seeks to remove barriers constructed to restrict knowledge and to re-center students as knowledge creators. Stop by to learn a bit about the Open Education Ecosystem - resources, software, databases, pedagogies, support, and mindsets - that can liberate your teaching (and your students?).

Michelle Greene, Neuroscience
Open Educational Resources (OER) in SCARAB: As opposed to increasingly expensive traditional textbooks, Open Educational Resources (OER) are freely available and openly licensed course materials that are reimagining the future of textbooks. NY/PS 357 collaboratively developed and published a Computational Neuroscience OER. The archived version of that work has been deposited in our Institutional Repository SCARAB.

Meredith Greer, Mathematics
Faculty Scholarship in SCARAB: The Bates College Institutional Repository SCARAB provides an opportunity for faculty to make their scholarship widely available through green Open Access (OA) publishing. Faculty can use this service to not only deposit articles which are already OA but also to deposit the post-print version of articles that are behind a publisher paywall. Come and find out how easy it is to make your scholarship more accessible.

Leshui He. Economics
Flipped Classroom in Economics with Perusall, Python, and Google Jamboard: Demonstrates several activities to promote active learning in Economics. Draws on a wide range of readily available resources, including Perusall (a social annotation platform), Python (a popular programming language) and Google Jamboard (a digital whiteboard).

Jakub Kazecki, German and Russian Studies. **Coram 102**
From "Bauhaus" to the "Berlin Wall": Virtual Reality in German Culture Class: Demonstration of the Virtual Reality (VR) applications, "Virtual Bauhaus" and "The Berlin Wall," used in two German culture courses. Paired with contemporary photographs and texts, VR enhances the students' understanding of the cultural importance of Bauhaus and the Berlin Wall. The VR apps stimulate student engagement with the course content and cultural material by breaking from the usual mode of text and visual media consumption.

Karen Melvin, History
Reading the Inquisition: The Spanish Inquisition: what was it really? Reading the Inquisition lets you decide for yourself by presenting full cases from the files of the Inquisition—unedited and unabridged—in three formats simultaneously: document image, transcription, and translation.

Andrew Mountcastle, Biology. **Coram 103**
Visualizing water flow through 3D printed sponges: Using a recirculating water flow tank, a laser sheet, and 3D printed models of sponges, demonstrates how BIO 195 students have been investigating water flow through the sponge bodies to better understanding the functional morphology of one of the most primitive animals on our planet.

Jeff Oishi, Physics
More is Different: Adventures in the Physics of Fluids from Bacteria to Solar Storms: The 2021 Nobel Prize in Physics recognized "groundbreaking contributions to our understanding of complex systems", combining insights from condensed matter physics and climate modeling. This demonstration brings a wide variety of techniques from statistical physics to the study of geophysical and biophysical fluid dynamics, a prototypical complex system and combines pencil-and-paper calculations, supercomputer simulations, and data-driven techniques to understand how chaotic systems behave.

Katy Ott, Mathematics
Writing with Spark
Adobe Spark is a web-based platform that allows users to create, edit, and collaborate on original visual content. This demonstration will share the experience using Adobe Spark in a First Year Seminar course where students created writing portfolios as their final assessment.

Anelise Shrout, DCS
Digitally Navigating the Past: In DCHI 212 - Digital History - students used augmented reality, interactive games, textual and network analysis to explore disasters in U.S. history. Will demonstrate several low-barrier-to-entry tools that allow students to explore historical causality and contingency.

Asha Tamirisa, Music
Inclusive Creative Audio Technology: Demonstrates creative audio technology used in new Music courses in recording, sound design, and interactive audio programming. These courses use free, cross platform, open source software to help realize the concern for inclusive pedagogical approaches to teaching audio technology. Demonstration will include recent student works and images of the recently updated Sound Studio student workspace, in Olin 302.

Drone Exhibit, Curricular & Research Computing. **Coram 110**
Drone video footage of the campus along with 2D & 3D mapping of various Bates land resources, including Morse Mountain. Display of VizLab's drones, including Phantom RTK and + DJI Spark