

## Open Scholarship in Practice

- **Time:** Friday, 29 September, 2017. 9am to 4pm
- **Where:** Lillooet room, Irving K. Barber Learning Centre, UBC. Map - <https://goo.gl/maps/ouAF2AV79CR2>
- **Registration:** TBA

*"Open scholarship, which encompasses open access, open data, open educational resources, and all other forms of openness in the scholarly and research environment, is changing how knowledge is created and shared."* [Association of Research Libraries](#)

The use of open practices and new Internet technologies have the potential to reduce barriers to research and education by making it more distributed, equitable, and accurate. Indeed, the U15 Group of Canadian Research Universities [recently stated](#) that the "the U15 is committed to disseminating scholarly publications and other research outputs as widely as possible in order to maximize their economic, cultural, social and health benefits, and the effectiveness of public investments in research...An individual or an institution's access to research results should not be limited by their ability to pay for that access. The U15 encourages the collaborative development of new models of scholarly communications that would benefit the academy and the public by leveraging the power of the digital age in ways that enhance the quality of scholarly and scientific publications."

Open practices are empowering faculty, staff and students at UBC to transform the way they create and share their research and educational efforts. Join us for a full day of hands-on workshops exploring the practice of open scholarship from new tools that can increase the reproducibility in quantitative research to new pedagogies that become possible when students and faculty members become co-creators engaged in meaningful, generative knowledge creation. All events are free but registration is required.

### Schedule:

#### **9:00am - 9.20am - Welcome**

##### *Presenter:*

- Eric Eich, Vice Provost & Associate Vice President Academic, UBC

#### **9.20am - 10:00am - Open Educational Practices: Aligning Teaching and Learning with Research Practices**

The student as producer pedagogical model emphasises the role of the student as collaborators in the production of knowledge. In this model, the university's approaches to learning and research are closer aligned; for example, students, similar to researchers, are asked to share their work with others and not just their immediate instructor or advisor. This session will examine both how educators can support learners' in their role as active participants in their learning and the university's intellectual output. It will explore case studies from courses and open educational projects at UBC that asked learners to not only be students but also scholars, creators, authors, researchers, designers, authors, and problem solvers.

*Presenters:*

- Christina Hendricks, Deputy Academic Director, Centre for Teaching, Learning & Technology
- Will Engle, Strategist, Open Education Initiatives, Centre for Teaching, Learning & Technology

**10:00am - 10.30am - Open Textbooks and Open Course Resources in the UBC Mathematics Department**

The Department of Mathematics at UBC has developed and integrated a variety of open course resources and textbooks into our first and second year math courses that have impacted many thousands of students. Initiated separately by many members of the department, with various individual reasons and motivations, Dr. Leah Edelstein-Keshet will describe one effort that has been invested in designing, creating, and evolving Life-Science-specific open resources directed at a 1st year sequence of calculus courses (Math 102-103), from its inception to recent experiences in the classroom. Aside from an open book, they have assembled flexible learning technologies that include videos, online homework (WebWork), and multi-stage quizzes, and others. Dr. Edelstein-Keshet will also briefly survey several independent ventures by her colleagues that are all directed at customizing the syllabus of courses they teach, helping the students avoid costly texts, and offering a range of material for student learning.

*Presenter:*

- Leah Edelstein-Keshet, Professor, Department of Mathematics

**10.30am - 10.50am - Coffee Break**

**10.50am - 12:00 pm - Open Data Workshop with Jupyter Notebooks -**

*Presenters:*

- James Colliander, Director, Pacific Institute for the Mathematical Sciences

- Patrick Walls, Instructor, Department of Mathematics

The [Pacific Institute for the Mathematical Sciences \(PIMS\)](#), in partnership with Compute Canada and Cybera, launched [syzygy.ca](#) a national scientific computing and data science platform. The platform is available to UBC students, faculty and staff at <https://ubc.syzygy.ca/>. This presentation will introduce Jupyter and demonstrate how it can be used in data analysis and scientific computation. Attendees are encouraged to bring their laptops to participate in the interactive discussion.

**12pm - 1:00pm - Lunch break (lunch not provided)**

### **1:00pm - 4:00pm - Open Science Framework: Increasing Openness and Reproducibility in Quantitative Research**

Please join us for a hands-on workshop hosted by the [Center for Open Science](#) to learn the many simple actions researchers can take to increase the reproducibility of their work. The workshop will be hands-on. Using example studies, attendees will actively participate in creating a reproducible project from start to finish.

Topics covered:

- Project documentation
- Version control
- Preregistration
- Open source tools like the Center for Open Science's Open Science Framework to easily implement these concepts in a scientific workflow

This workshop is aimed at faculty, staff, librarians, and students across disciplines who are engaged in quantitative research. The workshop does not require any specialized knowledge of programming. Participants will gain a foundation for incorporating reproducible, transparent practices into their current workflows.

*Presenters:*

#### **Jennifer Freeman Smith, Transparency and Openness Training Coordinator, Center for Open Science**

Jennifer Freeman Smith is a Transparency and Openness Training Coordinator for the Center for Open Science, where she develops curricula, delivers trainings, and provides support around reproducible research methods and open science. Before coming to COS, she helped health departments and community organizations implement evidence-based HIV prevention programs, conducted qualitative research in education and public health, and taught courses in composition and multicultural issues in education. She earned her doctorate in Educational Linguistics from the University of Pennsylvania.

Email Message:

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Open Science Framework (OSF) Workshop  
September 29, 2017

Open practices are empowering faculty, staff and students at UBC to transform the way they create, manage and share their research and educational efforts. Join us on September 29, 2017 for a [full day of hands-on workshops](#) exploring the practice of open scholarship including an afternoon session hosted by the Center for Open Science about the many simple actions researchers can take to increase the efficiency and reproducibility of their work with the [Open Science Framework platform](#).

The Open Science Framework (OSF) is an open source web application that supports the research workflow, enabling scientists to collaborate and increase the efficiency and effectiveness of their research by making it much easier (in fact, virtually automatic) for researchers to keep track of what they've done, and why. This framework, which does not require any specialized knowledge of programming, was used to work on [an important study](#) of the reproducibility of psychology research.

Additional workshops will explore topics ranging from new tools for open data analysis and scientific computation to innovative pedagogies that become possible when students and faculty members become co-creators engaged in meaningful, generative knowledge creation.

All events are free but [registration](#) is required.