We would like to begin by acknowledging that the land on which we gather is the traditional, ancestral, and unceded territory of the xʷməθkwəy̓əm (Musqueam) People.

We are pleased to present Skylight’s third annual report, which highlights our key accomplishments between May 2019 and April 2020.

We had another successful year providing focused consultations and support on pedagogy, curriculum, learning technology, evaluation, and management and implementation of large-scale projects. We had more than 2,500 participants at our events; contributed to 5 peer-reviewed publications, 23 conference contributions, and 17 UBC-internal reports; resolved more than 7,000 learning technology tickets; worked with more than 430 faculty and staff; supported 24 faculty members in their paired teaching efforts impacting courses in five departments; and collaborated on more than 130 projects, of which 20% was part of our efforts for the Student Diversity Initiative at Science. Our event on Indigenizing STEM Teaching and Learning was of particular interest to many, emphasizing the importance of this topic. The success of this event led us to develop our Skylight Lunch Series, a new event series offered during the lunch hour that is more inclusive of faculty unable to attend evening events. We also developed, administered, and analyzed a set of grad student, faculty, staff, and alumni surveys that have been an essential part of UBC Science’s strategic planning efforts.

With the onset of the COVID-19 epidemic in mid-March, we pivoted our efforts to supporting remote teaching efforts of Science colleagues, and will be reporting those efforts next year.

As we continue to provide support and make progress on our diverse set of services, we thank you for reading our report, and wish you all the best in your teaching and educational leadership as we navigate these uncharted territories of online teaching in the 2020/2021 academic year. We look forward to continuing to work with you.

Dr. Gülnur Birol, Director
Dr. Warren Code, Associate Director
**TEAM UPDATES**

We said goodbye to Rachel Petrynko and welcomed Jenny Wong as Learning Technology Analyst.

Eric Jandciu went on leave for a year, and Ashley Welsh was seconded to the Strategist, Teaching & Learning Initiatives role. Manuel Dias was promoted to the Faculty Liaison role during Ashley’s secondment.

Sarah Bean Sherman received the prestigious President’s Staff Award for her efforts in advancing diversity and inclusion, and for her personal achievements and contributions to UBC and its vision and goals.

Erika Borys was the recipient of the 2019 Dean’s Office Excellence in Administration, Service and Leadership (EASL) Award for her excellence in service.

**SERVICES & SUPPORT**

Through our consultations, collaborations, and engagement with faculty on teaching and learning projects, the Skylight team worked with 423 unique faculty and staff, impacting 153 undergraduate science courses spanning all years and UBC Science programs and accounting for 63% of Science undergraduate course enrollments (approximately 54,000 enrollments).

<table>
<thead>
<tr>
<th>Department/Program</th>
<th>Number of Courses in 2019/2020</th>
<th>Student Enrollments in 2019/2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOTA/ZOOL</td>
<td>20</td>
<td>9,816</td>
</tr>
<tr>
<td>CHEM</td>
<td>22</td>
<td>8,554</td>
</tr>
<tr>
<td>CS</td>
<td>23</td>
<td>11,763</td>
</tr>
<tr>
<td>EOAS</td>
<td>45</td>
<td>6,743</td>
</tr>
<tr>
<td>MATH</td>
<td>15</td>
<td>9,590</td>
</tr>
<tr>
<td>M&amp;I</td>
<td>2</td>
<td>410</td>
</tr>
<tr>
<td>PHAS</td>
<td>19</td>
<td>6,519</td>
</tr>
<tr>
<td>STATS</td>
<td>2</td>
<td>599</td>
</tr>
<tr>
<td>Other</td>
<td>5</td>
<td>835</td>
</tr>
</tbody>
</table>

**CONSULTATIONS**

We provided consultations for 226 unique faculty members (~36% of UBC Science faculty), impacting 102 courses representing ~42,400 student enrollments.

We awarded nearly $24,400 in total to 9 proposals.

**LEARNING TECHNOLOGIES ECOSYSTEM SUPPORT & CONSULTATIONS**

<table>
<thead>
<tr>
<th>Support &amp; Consultations</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learning technology support requests serviced</td>
<td>7,118</td>
</tr>
<tr>
<td>Active course sites created</td>
<td>1,700</td>
</tr>
<tr>
<td>Learning technologies supported</td>
<td>84</td>
</tr>
<tr>
<td>Software development efforts supported</td>
<td>3</td>
</tr>
</tbody>
</table>

**TEACHING AND LEARNING PROJECTS**

Skylight team members worked with 142 unique faculty and staff on 136 different teaching and learning projects with varying degrees of complexity and scale, with the ultimate goal of improving student learning and experience. Some of these projects received institutional funding while some of them are grassroots faculty projects undertaken without funding.

**SKYLIGHT DEVELOPMENT GRANTS**

Skylight received 10 proposals requesting a total of nearly $28,000 in the 2019 Summer competition. We awarded nearly $24,400 in total to 9 proposals.

**TLEF & UPER PROJECT SUPPORT (2020 FUNDING COMPETITION)**

23% of the TLEF funds awarded through UBC Vancouver went to Science projects

29% of the UPER funds awarded through UBC Vancouver went to Science projects

4 Large TLEFs

7 Small TLEFs

3 UPERs

**Development Grants Competition**

Summer 2019

<table>
<thead>
<tr>
<th>Course</th>
<th>Faculty/Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>23</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department/Program</th>
<th>Grant Holder</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM</td>
<td>Jaclyn Stewart</td>
</tr>
<tr>
<td>CS</td>
<td>Oluwakemi Ola</td>
</tr>
<tr>
<td>EOAS</td>
<td>Roland Stull</td>
</tr>
<tr>
<td>MICB</td>
<td>Marcia Graves</td>
</tr>
<tr>
<td>PHAS</td>
<td>Jared Stang &amp; James Charbonneau</td>
</tr>
<tr>
<td>Science Advising</td>
<td>Erin Green</td>
</tr>
<tr>
<td>Science Gateway</td>
<td>Nolan Bett</td>
</tr>
<tr>
<td>STATS</td>
<td>Bruce Dunham</td>
</tr>
<tr>
<td>ZOOL</td>
<td>Robert Harris</td>
</tr>
</tbody>
</table>
RESEARCH & DISSEMINATION

5 Journal Articles
2 Proceedings
23 Conference Talks

Peer-reviewed Contributions

COMMITTEES & ORGANIZATIONS

9 Professional Memberships
28 Committees Served
9 Co-hosted Visitors

Professional Contributions

EVENTS

2,500+ Attendees

1 Open House
6 Supper Series Events
49 Workshops
4 Departmental Seminars

1 Reading Group Session
3 Teaching & Learning Development Sessions
13 Science Community of Practice Sessions
3 Departmental Retreats

PARTNERSHIPS

STUDENT PARTNERSHIPS

We worked with:
• 2 Graduate Academic Assistants
• 2 Co-op Students
• 7 LTRs (Co-op Students)

We continued our efforts in making substantive progress toward all undergraduate students feeling included in the UBC Science community and equitably supported in their success.

Some highlights from last year include:
• 20% of the teaching and learning improvement projects having an EDI focus
• A comprehensive needs analysis
• Support for students, staff, and faculty in existing EDI affinity groups in Science departments
• A workshop on mitigating bias in graduate student admissions in PHAS
• Thriving in STEM - 2SLGBTQIA+ Perspectives, a student-focused event

We congratulate Margot Hessing-Lewis et al. for proposing incorporating Indigeneity into a course, and Elisa Banassad et al. for proposing visualizing inclusion to support equity in student group learning, both of which were funded by TLEF.

STUDENT DIVERSITY INITIATIVE AT SCIENCE

TEACHING STARTUP

We congratulate 24 faculty members who successfully completed the program in the 2019/2020 academic year, with support from our SEs.

Fall Term
Trevor Campbell & Tiffany Timbers (DSCI 100)
Ali Ameli & Uli Mayer (EOAS 329)
Ziliang Ye & Simon Bates (PHYS 117)
Alison Lister & Alannah Hallias (PHYS 101)

Spring Term
Jackie Dee & Anuli Uzozie (BIOL 121)
Rachel Germain & Laura Parfray (BIOL 230)
Kenji Sugio & Geoff Wasteneys (BIOL 362)
Karina Machetti & Steve Wolfman (CPSC 103)
Andrew Roth & Cinda Heeren (CPSC 221)
Joel Sayler & Stuart Sutherland (EOSC 222)
Jamie Cutts & Lucy Porritt (EOSC 223)
Jess McIver & Georg Rieger (PHYS 118)

We continued sharing our work with the broader science education community. We were invited to give 1 talk and 6 workshops, and we generated 17 UBC-internal reports and 1 external report to inform strategic decisions involving teaching and learning.

PARTNERSHIPS

We worked with:
• 5 Science departments
• 14 Faculties, schools, institutes, and programs
• 10 Support units
• 7 Institutions external to UBC
Faculty Advisory Council Members provided input and advice on SDI@Science, the learning analytics fellows program, and the pathways project. They also participated in the Skylight's self-study conducted in November 2019, and in a workshop exploring Skylight's learning technology support model. In addition, many of the faculty members continued to supervise the work of the Science Education Specialists in their departments.

MESSAGE FROM OUR ASSOCIATE DEAN, ACADEMIC

The Skylight team’s support of evidence-based pedagogy across the Faculty of Science continues to be broad, deep, and proactive. Members’ work on course-level pedagogy; curriculum development and revision; special teaching and learning projects like TLEFs; the Student Diversity Initiative at Science; professional development for new and experienced faculty; facilitating conversations about decolonization and Indigenization in courses and curriculum; and other efforts have continued to improve the learning experience for students and the teaching experience for faculty in Science. At the end of the period covered by this report, UBC and universities across the world had to rapidly adapt to the circumstances of a global pandemic. During this time of abrupt transition and uncertainty, Skylight’s staff members and leadership did a tremendous job supporting faculty to complete courses online, keeping student learning and engagement at the forefront. The crisis tested Skylight’s embedded expert model, which proved to be a strong and resilient structure to meet the many new challenges. I am extremely impressed by the dedication and expertise of the Skylight team.

-Sara Harris, Associate Dean, Academic
Annual Report Enquiries

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General Information

Please visit https://skylight.science.ubc.ca/about to download our prospectus, Advancing the Science Behind Education.

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