



Quantitative Sciences Course Union (QSCU)

QSCU Weekly Meeting

January 20th 2020 | 3:30 PM | UNC 105

[QSCU Calendar](#)

Attendees: Lauren, Chelsey, Stephanie, Livia, Tegan, Megan, Brodie, Jeff, Min, Ivan, Griffin, Kat, Kat, Alex, Kristine, Ester, Emily, Andre, Jeremy

New Business:

High Priority = Red

Med Priority = Orange

Low Priority = Green

Topic of Discussion	By	Timeline	Action (Y/N)
<p>→ Snack!</p> <ul style="list-style-type: none"> ◆ Name, snack, date 	Lauren		
<p>→ Events</p> <ul style="list-style-type: none"> ◆ Coming Up <ul style="list-style-type: none"> ● Arduino workshop with IEEE, C++ basics <ul style="list-style-type: none"> ○ Led by: Lauren, Volunteers: Emily, Kat, Griffin, Neha, Livia ○ February 24th or 25th ○ Volunteers please let Lauren know (basic Java knowledge) ● Student & Faculty Skating Night <ul style="list-style-type: none"> ○ Friday January 24th at 6pm @ Stuart Park Skating Rink <ul style="list-style-type: none"> ◆ \$5 skate rentals (cash) ○ Tell your profs and friends! ○ There will be hot chocolate! :) ● Intro to Python <ul style="list-style-type: none"> ○ Led by: Kat and Ivan ○ Volunteers: Brody 	Lauren		



- Tuesday 28th at 5:30 EME 1202

- **Intro to Latex**

- March 2 at 5 pm EME 1202
- Geared toward math and physics
- Volunteers: Brodie

- **CHIME/DRAO Tour**

- Saturday March 28th
- Off-campus form submitted
- Jordan is checking with OC professors and new UBCO professor about being a potential speaker
- Talk to Alex Goodhew from Accelerate about Innovation Center
- Carpool sheet to come closer to
- Talk in evening or day after (by new professor here or professor at OC that does work at DRAO)
- Collaborate with UBCO Astronomy club

- ◆ **Pending Events**

- Kelowna Rockets special priced tickets
 - \$10 dollars
 - Saturday March 14th
 - Tickets through Lauren
- Bob Ross Pub Night
 - First week of March
 - Lauren is coordinating with Sean
 - Painting in the well prior to (?)
- Undergraduate practice speech



- Collaboration with Undergraduate research club
- Talk to Leo about it (might work with him to get an astronomer)
- Get Phil to help
- Cryptography
 - Talking with Scott about it now, we are discussing what would be covered.
 - Current plan is comparison and discussion the symmetric vs asymmetric (pub/private vs single key) with some discussion of libraries
 - Maybe a tie in to how principles of cryptography and pub/private keys are implemented in practice with Blockchain
- Pi Day
 - Selling in February
 - Emily is reaching out to Shuswap Pie Co and Maria and Laura's
 - Pi Day is on Saturday so we will do Pi Day on Friday, March 13
- Machine Learning workshop
 - With Jeff Andrews: for R
 - Kat and Emily: for Python
 - ◆ Kat here: I'm not sure what sort of aspect of ML to focus on
 - Combining into one workshop
- Grad student panel
 - March
 - Confirm by mid-February ish



<ul style="list-style-type: none"> ○ For students thinking of going into grad studies ● Badminton <ul style="list-style-type: none"> ○ Kelowna Badminton Club has been re-contacted ○ Likely a weekend ○ QSCU cover drop in cost ○ Mid February ● Women in STEM event <ul style="list-style-type: none"> ○ Reach out to a highschool ○ Contact CCU, MCU, Engineering society and get some collaboration (panel) ○ March 8th ish - week long thing ○ GIT is running a large event with ACM as well. 			
<p>→ BC Cancer Summer Student Research</p> <ul style="list-style-type: none"> ◆ Cover Letter addressing the following: <ul style="list-style-type: none"> ◆ ○ GPA (Minimum 80%) ◆ ○ Verification that you will have completed a basic statistics course by this upcoming summer. Note that preference will be given to students who have completed DATA 301. ◆ ○ Brief (2-3 sentences) description of any previous research- or medical-related volunteering / experiences. ◆ ○ Brief description of any summer plans you already have. ◆ ○ Brief description of why you would be interested in premed oncology OR computer programming OR epidemiology / statistics summer research position. ◆ ○ Any specific projects you would be interested in being involved with (to see a list of ongoing projects, please visit our website 	Lauren	Feb. 1	



<p>at http://www.earlydetection.ca and click “Projects”).</p> <ul style="list-style-type: none"> ◆ · Curriculum vitae ◆ · Unofficial Transcripts <p>For more information, please visit the following websites:</p> <ul style="list-style-type: none"> · UBC Faculty of Medicine Summer Student Research Program (SSRP) http://www.med.ubc.ca/current-learners/summer-student-research-program/students/ · BC Cancer Early Detection Research Group website http://www.earlydetection.ca/ <p>If you are motivated student interested in a position, all applications can be forwarded to amanda.wanner@bccancer.bc.ca with subject line “2020 Studentship” by no later than February 1, 2020.</p>			
<p>→ Review Session Course List - Midterm Dates</p> <ul style="list-style-type: none"> ◆ COSC 111 - Bowen, TA hosted usually <ul style="list-style-type: none"> ● Feb 7 ◆ COSC 121 - Ab <ul style="list-style-type: none"> ● 2/27 ◆ PHYS 121t <ul style="list-style-type: none"> ● February 14th ◆ PHYS 122 <ul style="list-style-type: none"> ● February 7th ◆ DATA 301 <ul style="list-style-type: none"> ● Tuesday 2/25 ● Thursday 3/26 ◆ STAT 230 <ul style="list-style-type: none"> ● Test 1 Feb 12 ● Test 2, March 23 ◆ MATH 221 <ul style="list-style-type: none"> ● Test 1 Feb 11 ● Test 2 March 17 	Lauren	Now - Jan. 30th	
<p>→ Timeline Ex. Python Workshop</p> <ul style="list-style-type: none"> ◆ October 4th 	Lauren	Now - Sept. 27th	Y, Lauren



◆ Future Calendar here			
<p>→ Women in STEM</p> <ul style="list-style-type: none">◆ Ada Lovelace - COSC hero<ul style="list-style-type: none">● Her notes include the first algorithm that was intended for the use of the machine. She is, therefore, credited as being the very first computer programmer.◆ Katie Bouman - black hole girl◆ Rachel Carson - marine biologist and conservationist (creation of EPA)◆ Grace Hopper (so frickin cool)<ul style="list-style-type: none">● COSC person and US Navy rear admiral● Invented the first compiler for a computer programming language● Popularized the idea of machine independent programming languages (led to COBOL)◆ Chien-Shiung Wu (Physics rocks)<ul style="list-style-type: none">● Member of Manhattan Project● Her work helped develop the process of separating Uranium into Uranium 235 and 238 by gaseous diffusion● Most famous for Wu Experiment which contradicted the law of conservation of parity◆ Female fields medal winner: Maryam Mirzakhani◆ Emily Noethe◆ Donna Strickland<ul style="list-style-type: none">● https://globalnews.ca/news/4508006/nobel-prize-physics-canadian-donna-strickland/◆ Sabrina Gonzalez Pasterski<ul style="list-style-type: none">● https://en.m.wikipedia.org/wiki/Sabrina_Gonzalez_Pasterski			



<ul style="list-style-type: none">◆ https://obamawhitehouse.archives.gov/women-in-stem◆ https://www.astro.umd.edu/~miller/teaching/questions/women.html<ul style="list-style-type: none">● These women astronomers were hired as calculators at one of the best observatories of the day and distinguished themselves, discovering some of the most important facts used in astronomy today like the main sequence of stars and cepheid variables (which are HUGELY important to measuring great distances. The discovery that the universe's expansion is accelerating were due to these stars)			
<p>→ Unit 5 Travel Funding</p> <ul style="list-style-type: none">◆ Applicants should e-mail Dr Warren Hare <warren.hare@ubc.ca>, with the subject line "Unit 5 Travel Scholarship Application" and include the following:<ul style="list-style-type: none">● 1. A 1/2 page letter (pdf file, 12pt font) that states their contact information, which conference they wish to attend, and why it would benefit them to attend. (Include dates and urls)● 2. An unofficial transcript, including their declared major.● 3. (if applicable) A rationale explaining why 'non-summer' travel is required, along with an explanation on how such travel will impact their studies.● 4. (optional) If they will give a presentation (talk or poster) at the conference, then a copy of the title and abstract.			



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Action Items: [name: action - done by]

e.g Parsa: Create new Meeting Notes by Oct 29th

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Pending Events:

→ Arduino Workshop

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Upcoming Midterm Review Sessions: