

Resources

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Here is quick guide to some of the resources available to graduate students here in the math department. If you have any questions, you can email me at pine@math.colostate.edu and I can most likely point you in the right direction. Also, you should feel free to ask the more seasoned grad students for help. Most of them are very nice!

1 Finding Books

The majority of us have very limited funds, and textbooks can be pretty expensive. The good news is that we have some free (legal) resources available to us as CSU students.

1.1 Ask to Borrow

It's pretty common for professors to use the same book from semester to semester, so ask around and see if an older grad student has the book you need. Most of the time, they'll be willing to loan it out.

1.2 Springer Link

Accessing this link: link.springer.com on a computer connected to the CSU network will automatically give you access to content on Springer Link. You can also access the same content from off campus by using your eID at this link: <http://lib.colostate.edu/help/off-campus-access>. The website archives millions of journal entries, and you will occasionally be able to find full textbooks in pdf form. As far as I know, there is no limit to the number of downloads.

1.3 CSU Library

If you can't score a pdf on Springer link, your next best bet is probably the library here at CSU. You can search the library here: lib.colostate.edu.

When you find a book that you'd like to read (depending on the book), you can check it out for something like 6 months at a time. On top of that, you can place 2-3 holds on the book for another 6 months, as long as no one else places a recall on the book. Note: If you want a math book that is checked out, don't place a recall on it right away. Odds are, one of us will have it and we will share it with you. If you recall it, the current borrower has to go back to the library, turn it in, and probably won't be all that excited.

1.4 Prospector

The library is also connected to other libraries via inter-library loans, and there is also a region-wide search engine called Prospector. You can access it here: <http://prospectorhome.coalliance.org/>. It is linked

to over 20 different libraries, and you can pick up any materials from the CSU library (or the Poudre Valley library in Old Town if you have a card).

1.5 Use your free SIAM Membership

Every math grad student can sign up for a SIAM membership for free. It entitles you to two free journal subscriptions, and you get a sweet 30% discount on SIAM-published texts. You can make a free account here: <https://my.siam.org/Default.aspx?TabID=37> Once you have the account, you can log in here: <http://bookstore.siam.org/> and buy you some books.

2 Computing

You'll notice that all of our computers have cool names, and that we have fun passwords in the math department. This is the work of Zube. In fact, this whole section is basically just going to direct you to Zube.

2.1 Network Problems

Zube is the guy to talk to if you have any questions or problems with the network, passwords, accessing your J: drive, or if anything happens to one of the desktops. He's a great guy, known to tell entertaining stories and be genuinely helpful. Just don't plug anything into his network, and remember that flash drives are the dirty needles of computing. Before you email him, check his FAQ: <http://www.math.colostate.edu/FAQ/FAQ.html>

2.2 tx1 and tempest

These are the two linux boxes that anchor our department. Everyone has access already, tempest is the mail server and a good place to ssh into (for instance if you are trying to do something from home or from your laptop) and tx1 is a 64-core 512 GB simulation runner (you can do big things in parallel!) You can use this to run bigger jobs, especially jobs that run in parallel. The only drawback is that if you are coming from a windows box, you will have to run things command line (lots of older graduate students can help you with this!) From a windows machine: use PuTTY (installed by Zube on dept machines, or downloaded for free online) to ssh into the dept machines. Host name: tx1.math.colostate.edu, SSH to Port 22, login in with your department credentials.

2.3 WinSCP

WinSCP is the standard program we use to ssh (secure shell) into the tx1 and tempest servers. Open up the program, use your department credentials, and try not to get lost in the maze of folders. If you aren't interested in running any big MATLAB codes in parallel, you'll probably just use WinSCP to update your "officetimes" document for the web page. That file should be under `/home/nonfac/f/*YourName*/public_html`. WinSCP can also be used from your home computer, you just have to log onto a computer to which Zube has enabled an outgoing connection.

2.4 Katrina

The pattern analysis lab maintains a network of some larger-than-normal processors. You need authorization to use this network, however, and would have to talk to Dr. Kirby about using these resources.

2.5 Dr.Dangelmayr's Computer

If memory serves, Gerhard Dangelmayr recently purchased a pretty powerful computer and offered computing time to members of the department. I'm reasonably sure this isn't just heresay, but you'll have to contact Dr. Dangelmayr for more information.

2.6 Department Laptops

You can check out laptops downstairs in the main office by talking to Bryan (Kate may have taken over this job). These are great if you need to give a presentation or a class demonstration, especially because they have MATLAB and MAPLE installed. Don't forget to delete any of your sensitive files off these when you are done (check the downloads folder, too) because everyone uses the same account.

3 Printing

3.1 Copier

Don't use your desk computer to print out 30 copies of the same worksheet for your class. Use the copier in the mail room. The copier will also scan documents, and you can upload the document to a flash drive directly. If you have troubles, ask Bryan, Kate, or another grad student. The copier can be a little intimidating your first time.

3.2 3D Printing

I don't know how many grad students actually use these, but we have a number of 3D printers available for our use. Here's a link to the I2P lab: <https://idea2product.net/>. Within the department, Alexander Hulpke has a 3D printer that he may be willing to use for you if you ask him nicely.

4 Miscellaneous

4.1 Buses

Your CSU ID will let you ride the Transfort buses for free if you are carrying enough credits (I think 6+). You can find the bus schedules here: <http://www.ridetransfort.com/schedules/mapsandschedules>

4.2 Get a Bike

Fort Collins is a Platinum Bicycle Friendly Community, which means that this is a really great place to commute on a bike. Talk to Derek about bikes, he knows all about them. If you need repairs, CSU has a bike shop over by Moby Arena, called the Spoke. The service won't be as comprehensive as a bigger shop, but you can avoid paying for labor costs by staying to help them work on your bike. They'll teach you everything you need to know and let you use their tools: http://cr.colostate.edu/main_thespoke.aspx

4.3 The Rec Center

You can use the recreation center for free if you are carrying 6+ credits (aka you already paid). It's a pretty sweet place, and there are plenty of fitness classes or intramural sports you can attend for no extra dough. In the spring, keep a look out for Renzo's capoeira class! Check out some of the resources here: <https://csurec.colostate.edu/>, but be sure to drop in to the rec center and talk to the people at the front desk to get the full scoop on programs and sports.

4.4 TILT

The Institute for Learning and Teaching (next door) has some resources for students and instructors. They offer free tutoring for your students, and they have:

- Teaching resources: <http://tilt.colostate.edu/proDev/resources/index.cfm>
- Short courses for instructors: <http://tilt.colostate.edu/proDev/shortcourses/index.cfm>
- Graduate student workshops: <http://tilt.colostate.edu/proDev/gradStudents/miniCon.cfm>
- Graduate teaching certification: <http://tilt.colostate.edu/proDev/gradStudents/certificates/index.cfm> (Rachel is earning this certificate now, and she would be happy to answer questions!)

4.5 Travel Funding

The department offers some funding to reimburse us for traveling to workshops, conferences, et cetera. Our travel limit is \$1000 per rolling calendar year (365 days) with a cap per conference/workshop of \$500 if you are presenting, and \$250 if you are attending but not presenting. They suggest you seek alternate funding first (so you can use your department funds when you really need them). The use of these funds must be pre-approved, with some paperwork that you can find on the department website: <http://www.math.colostate.edu/documents/>. There is a pre-travel and a post-travel form, both of which go to Sheri Hofeling. Before you start these forms, you may want to drop in and see Sheri. She is the accounting guru, and will be able to answer all of your travel expenditure-related questions.