

# CS GRAD STUDENT ORIENTATION

Spring 2025



UNIVERSITY OF  
**WATERLOO**

DAVID R. CHERITON SCHOOL  
OF COMPUTER SCIENCE



# Today:

1. Welcome from Cheriton School of CS
2. Graduate Advocates  
*Professors Kate Larson and Richard Trefler*
3. CS Graduate Student Association  
*Gengyi Sun, Evelien Riddell, Harrum Noor, Ruizhe Wang, & James Riddell*
4. Computer Science Computing Facility  
*Lori Paniak*
5. Grad Office Orientation  
*CS Grad Office*

## Appendix

### Library Services

*Rebecca Hutchinson*





# **WELCOME TO GRAD SCHOOL**



# School of Computer Science leadership



**Raouf Boutaba**  
Director of the School



**Khuzaima Daudjee**  
Director of Grad Studies



**Shane McIntosh**  
Assoc. Director of Grad Studies

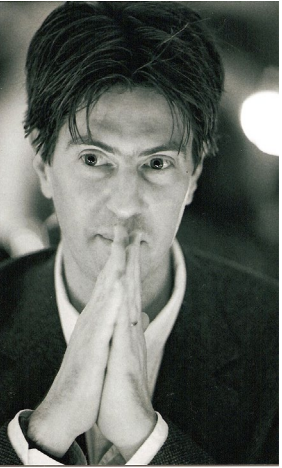
# A message from Khuzaima Daudjee, Director of Grad Studies

# **GRADUATE ADVOCATES**

**PROFESSORS RICHARD TREFLER**

# Graduate Advocate

## Your CS Advocates:



Richard Trefler ([trefler@uwaterloo.ca](mailto:trefler@uwaterloo.ca))

Kate Larson ([kate.larson@uwaterloo.ca](mailto:kate.larson@uwaterloo.ca))

You can also talk to [other advocates in the Faculty of Math](#)

- Responsible for interacting with graduate students on matters that are related to their graduate student experience, in a confidential setting
  - Items you want brought to the grad director's attention but are not comfortable discussing with them directly
  - Second opinion on advice, requests, comments made to you by your supervisor
  - Changing supervisors
  - ...
- Everything is “off-the-record” unless you desire otherwise.



UNIVERSITY OF  
**WATERLOO**

FACULTY OF  
MATHEMATICS

# **CS GRADUATE STUDENT ASSOCIATION**

**GENGYI SUN, EVELIEN RIDDELL, HARRUM NOOR,  
RUIZHE WANG, & JAMES RIDDELL**



# CSGSA Board Members



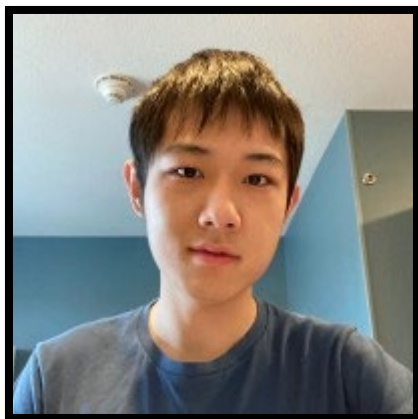
Evelien Riddell  
evelien.riddell@uwaterloo.ca



Gengyi Sun  
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Harrum Noor  
harrum.noor@uwaterloo.ca



Ruizhe Wang  
ruizhe.wang@uwaterloo.ca



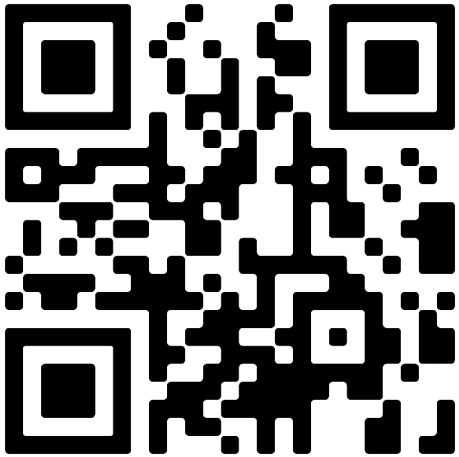
James Riddell  
james.riddell@uwaterloo.ca



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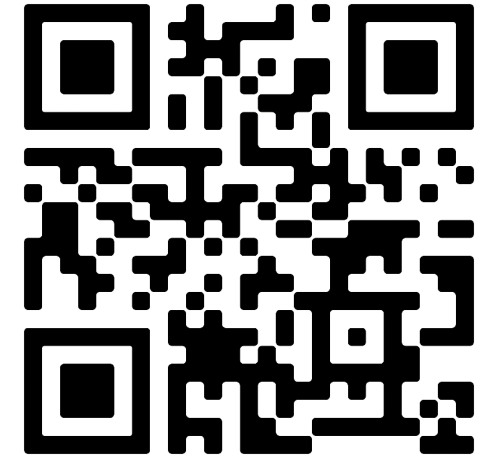
# Contact us



CS Grad Student Discord

csgsa@uwaterloo.ca

Instagram: @uwcsghsa



CSGSA Website

# **COMPUTER SCIENCE COMPUTING FACILITY (CSCF)**

**LORI PANIAK  
TECHNICAL MANAGER, RESEARCH AND SPECIAL PROJECTS**

# CSCF Services

Lori Paniak

Manager, Research and Special Projects (RSG)

[ldpaniak@uwaterloo.ca](mailto:ldpaniak@uwaterloo.ca)

DC 2625

<https://teams.microsoft.com/l/chat/0/0?users=ldpaniak%40uwaterloo.ca>

# Very Short Version: Campus IT

- This doc:  
<https://vault.cs.uwaterloo.ca/s/KdS22EDFrG2s37D>
- Also: One-page flyer of IT services available  
<https://vault.cs.uwaterloo.ca/s/5WLD7HsXxcnznJr>





# CSCF Structure: Three Groups

- Infrastructure (**INF**) – Manager: Gwendoline Nubila, plus 5 staff
  - provides servers, network infrastructure, Active Directory, purchases all computing equipment for the School
- Teaching and Administration (**TOP**): Manager: Nick Lee, plus 5 staff
  - supports all undergraduate teaching labs, plus administrative staff, the Instructional Support Group and School meeting rooms and audiovisual services
  - CSCF Help Desk
- Research and Special Projects (**RSG**): Manager: Lori Paniak (me), plus 8 staff
  - provides IT support for Faculty, Grads, PostDocs and Research Visitors
  - Develop (web) Applications for the School and wider campus

# Workstations when you arrive

- Research grads
  - Supervisor/you have choice of (including monitor):
    - PC Laptop – Windows / Ubuntu
    - Mac Book Air (M1/M2)
    - Supervisor purchased system
  - Expect an email from “RT” on this!
- <https://cs.uwaterloo.ca/cscf/about/policies/graduate-student-workstation-options>



# Research Support

- Each group/faculty assigned a “Point of Contact” within the Research Support Group – that is your “go to” person  
<https://uwaterloo.ca/computer-science-computing-facility/getting-help/research-points-contact>
- Other RSG staff will also help as needed
- Your point of contact has answers to all your IT questions (on campus and beyond)
- Can help out with workstations, clusters, grants, GPUs...



# CSCF Help Desk

- We have a Help Desk that can handle certain tasks
  - Loan of equipment – cables, display adapters, external drive bays, keyboards, mice
  - Assist with wireless issues
  - Take a problem report and get it assigned to appropriate staff
  - x31100, DC 2608 or [cscfhelp@uwaterloo.ca](mailto:cscfhelp@uwaterloo.ca)
- <https://cs.uwaterloo.ca/cscf/getting-help/help-desk>

# Compute Resources

- School Linux servers: linux.cs.uwaterloo.ca
- Student Linux servers: linux.student.cs.uwaterloo.ca
- School Windows servers: windows.cs.uwaterloo.ca
- GPU cluster: watgpu.cs <https://watgpu.cs.uwaterloo.ca>
- VM server: <https://andromeda.cs.uwaterloo.ca>
- On demand servers: <https://paper.cs.uwaterloo.ca/>





# File Storage

- Ceph distributed cluster – 500GB+ per student
  - Home directory under linux.cs
  - P: drive under Windows.cs and Windows workstations
  - <smb://smb-files.cs.uwaterloo.ca>
  - S3 buckets
- Backup
  - Files are backed up regularly
  - Snapshots: `cd .snapshot` in any directory, files stored by hour, day, week



# NextCloud (DropBox-like service)

- Locally stored on ceph cluster
- Up to 500GB per grad student (ask if you need more)
- Access at: <https://vault.cs.uwaterloo.ca>
- Download NextCloud clients or web access
- Documentation: <https://cs.uwaterloo.ca/twiki/view/CF/Vault>



# Personal Web Pages

- <https://cs.uwaterloo.ca/~youruserid>
- Files in linux.cs home directory under “~/public\_html”
- Create/update index.html
- Make sure to assign “world read” to your web files
  - % `chmod o+r index.html`



# Email

- [youruserid@uwaterloo.ca](mailto:youruserid@uwaterloo.ca)
  - Grad students automatically given a Office 365 account
  - Can redirect wherever you prefer with a mailbox rule:
  - i.e. Your own account (Gmail, Hotmail, etc)
- You can also configure a “friendly” email address, e.g.:
  - [Lawrence.Folland@uwaterloo.ca](mailto:Lawrence.Folland@uwaterloo.ca)
  - Do that in <https://idm.uwaterloo.ca/watiam/login.jsf?prompt=true>
  - Manage Email Settings



# Printing

- Can print to any of our printers listed on our CUPS server:
  - <https://print.cs.uwaterloo.ca:631/printers/>
  - Or [\\printers.cs.uwaterloo.ca](https://printers.cs.uwaterloo.ca) (in Windows)
    - (login with your CS-GENERAL\\userid credentials)
- Setup notes:
  - <https://cs.uwaterloo.ca/twiki/view/CF/WindowsPrinting>
  - <https://cs.uwaterloo.ca/twiki/view/CF/LinuxPrinting>
  - <https://cs.uwaterloo.ca/twiki/view/CF/MacPrinting>
- Note: printing is tracked but not quota limited
- <https://cs.uwaterloo.ca/twiki/view/CF/LinuxPrinting>





# High Performance Computing (SCS)

- Faculty-provided servers/clusters: thousands of CPU cores/dozens of GPUs!
  - Syn cluster – Salem/Wong/Brecht (Data Systems Group)
  - RIPPLE – Ian Goldberg (CrySP)
  - Tembo – Khuzaima Daudjee
  - CloudNetwork – Raouf Boutaba
  - MI 60 – Ming Li (Bioinformatics)
  - Daytona – Poupart/Hoey/Lizotte (Health Informatics)
  - Husky – Ihab Ilyas (DB)
  - Chippie – Cybersecurity and Privacy Institute
  - Himrod – General use
  - watgpu.cs – AI cluster
  - datasci.cs – Hadoop cluster
  - Various other servers
- <https://cs.uwaterloo.ca/twiki/view/CF/HighPerformanceComputingResources>



# HPC – SHARCNET/Compute Canada

- Compute Canada provides batch computing for large numbers of cores/memory/GPUs
- 1 TB storage
- Requires a Compute Canada account based on faculty sponsorship (your supervisor needs to have an account to sponsor yours)
- There is no cost to use these resources
- Systems and accounts: <https://alliancecan.ca/en/services/advanced-research-computing/federation/national-host-sites> <https://alliancecan.ca/en/services/advanced-research-computing/account-management/apply-account>

# Software

- Windows – can be put on any Research / Teaching machine
- MS Office – campus license
- [Visual Studio](#) – free Academic license
- [VMWare](#) – Math license – covers vSphere Enterprise Plus, vCenter, vCloud Director, vCloud Suite, Workstation, Fusion, etc. – for research / teaching machines
- Maple – free for UW users
- MatLab – free for UW users
- Others – talk to your Point of Contact



# Questions? Feedback?

Lori Paniak

[ldpaniak@uwaterloo.ca](mailto:ldpaniak@uwaterloo.ca)

DC2625



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MATHEMATICS

# **GRADUATE OFFICE ORIENTATION**

**CS GRAD OFFICE**



# Staff



**Denise Shantz**  
Graduate Studies Manager



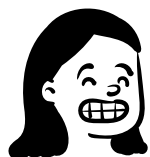
**Makenna Ryder**  
Graduate Coordinator, TA & Scholarships



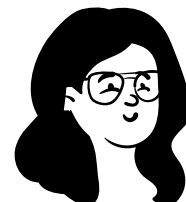
**Nadine WitmerZinger**  
Graduate Coordinator, PhD Programs



**Cecilia Martin-Grant**  
Graduate Coordinator, MMath Programs



**Amy Todd**  
Graduate Coordinator, Admissions & Scheduling



**Savannah Kuy**  
Grad Office Co-op Student

# Agenda

1. Understanding your funding: GRS & TA pay
2. External scholarships
3. What to expect when TA'ing
4. Course enrolment
5. MMath co-op program
6. Key reminders

# **1. UNDERSTANDING YOUR FUNDING**

# Each offer contains three sources of funding:

## Graduate Research Studentship (GRS)

### What is it?

Pay for the work you perform as a researcher in your supervisor's lab.

### Who pays it?

Your supervisor

### When is it paid?

Lump sum at the beginning of term in Quest.

## Teaching Assistantships (TA)

### What is it?

Pay for the work you perform as a TA for undergrad courses.

### Who pays it?

The School

### When is it paid?

Monthly, last Friday of the month

## Termly Scholarships

### What is it?

IMAE, IDSA, and DGSA\*

### Who pays it?

The University or the School

### When is it paid?

Lump sum at the beginning of term in Quest.

*\*DGSA is an award for domestic students – it's not a separate line item in your offer but is included in the GRS line item*



# Funding is generally based on four TA units per year

MMath students usually have four TA units in their 1st year, and three TA units in their 2nd year:

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
E.g. # of TA's	1 TA unit	1 TA unit	2 TA units	1 TA unit	1 TA unit	1 TA unit

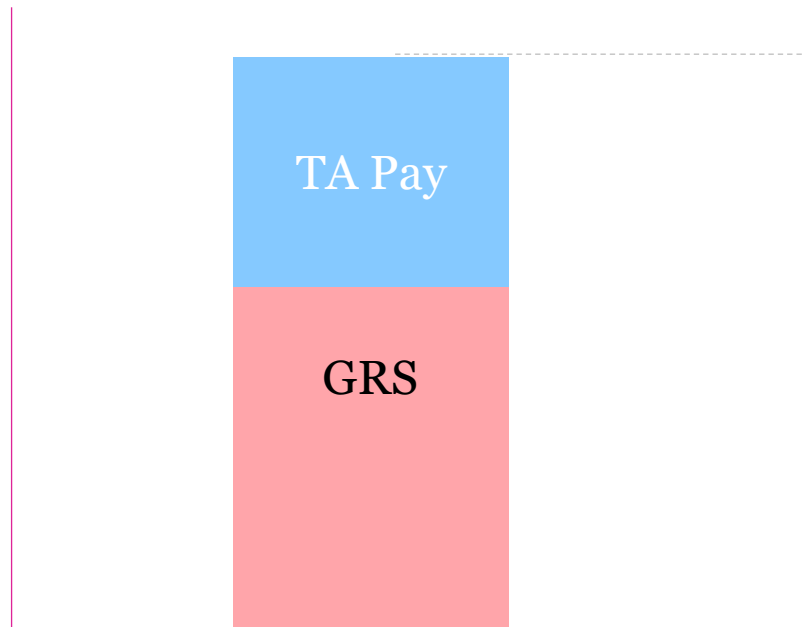
PhD students have four TA units in each year:

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6	...
E.g. # of TA's	1 TA unit	1 TA unit	2 TA units	1 TA unit	1 TA unit	2 TA units	...

TA allocations vary term to term. Your TA pattern may not match this example exactly.

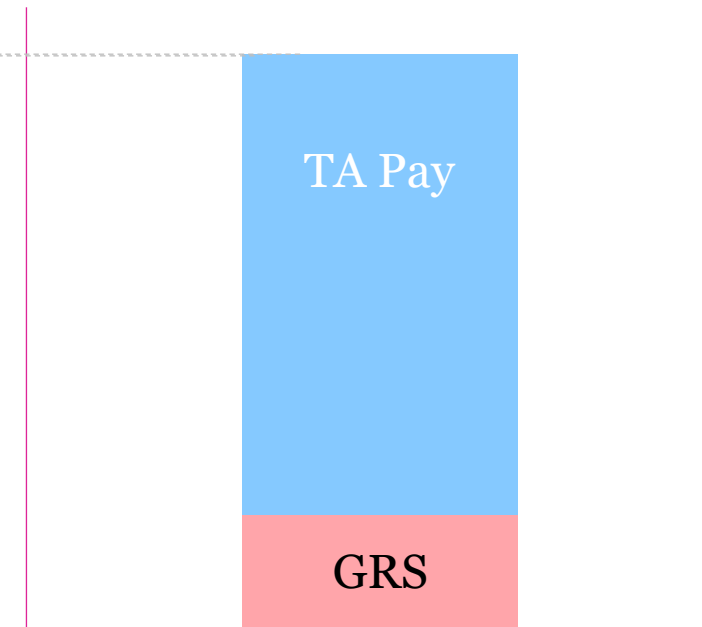
# GRS funding will fluctuate with your TA units to help ensure your termly pay is regular and balanced

*In terms with one TA unit, you will receive a base GRS*



~ The  
same total  
each term

*In terms with two TA units, your GRS is reduced as your TA income doubles*



# You can review expected GRS vs. TA earnings based on these charts:

## MMath

## PhD

### Domestic

	1 TA unit term	2 TA unit term
TA	\$4,380	\$8,760
GRS	\$4,000	\$1,000

	1 TA unit term	2 TA unit term
TA	\$4,380	\$8,760
GRS	\$3,439	\$1,000

### International

	1 TA unit term	2 TA unit term
TA	\$4,380	\$8,760
GRS	\$6,818	\$2,628

	1 TA unit term	2 TA unit term
TA	\$4,380	\$8,760
GRS	\$6,059	\$1,679



# Beyond GRS & TA, your letters would also have included a termly scholarship:

**MMath**

**PhD**

**Domestic**

Name	Termly Amount
Domestic Graduate Student Award*	\$1,000

Name	Termly Amount
Domestic Graduate Student Award*	\$2,000

**International**

Name	Termly Amount
International Master's Award of Excellence	\$2,500

Name	Termly Amount
International Doctoral Student Award	\$5,140**

\* Incorporated in your "GRS" line item in your offer letter

\*\* May be split between two sources in some terms



# If you used a promissory note to cover your tuition/fees, your funding will be deducted in the following order:



1. First, the tuition/fee balance will be deducted from your **GRS and scholarships posted in Quest**.
2. If a tuition/fee balance remains, it will be divided into four and deducted monthly from your **TA pay**.
3. If funding remains after paying your tuition/fee balance, it will be deposited into your Canadian bank account on file.

# It is important to remember that just like your academic career, your funding is also your responsibility to track and manage:

1. Have I added my bank account details into Quest?
2. Do I have, at minimum, the three core sources of funding (GRS, TA, termly scholarship) accounted for in my Quest account?
  - Please note that at times your termly scholarship may appear as a “GRS” line item in Quest – ensure you’re checking the total funding, not just the names of the line items!
  - Please also ensure you’re aware of both the eligibility and time length of your scholarships
3. Does my GRS rate match the amount of TA units I’m working this term?

Confused about your funding? Think you’ve received too much or too little?  
**Please reach out to [Cfinance@uwaterloo.ca](mailto:Cfinance@uwaterloo.ca) for support!**

## **2. EXTERNAL SCHOLARSHIPS**

# EXTERNAL SCHOLARSHIP DEADLINES

View more on the [CS Website under External awards](#)

February 1	OGS Domestic and International applications are due <i>Note: transcript requests normally due end of January</i>
September	NSERC Doctoral transcript requests are due
October	NSERC Doctoral applications are due
November	Tri-Agency CGSM transcript requests are due
December	Tri-Agency CGSM applications are due

We send updates on scholarships via our biweekly CS Grad Office Newsletter!

# **3. WHAT TO EXPECT WHEN TA'ING**

# General information for TA's

Per Policy 30, your TA contract will include more detailed expectations for your TA role. However, at minimum you can expect the following:

- One TA unit = 80 hours of total work in one term (approx. 5 hours per week)
- Two TA units = 160 hours of total work in one term (approx. 10 hours per week)
- Once you receive your TA assignment and contract, please reach out to the instructor or Instructional Support Coordinator for your course
- Always ensure you fill out the TA preference form that becomes available in the second month of term. This ensures you'll receive an appropriate TA next term.

# Getting set-up to TA: a checklist

- ❑ **Get set-up in Workday**

You will receive an email from Workday within the first month of term regarding on-boarding. Please ensure you complete all on-boarding steps, including submitting your Canadian banking information. A Canadian bank account is required.

- ❑ **Complete your mandatory LEARN trainings (via self-registration) in your first 8 weeks**

- ❑ Academic Integrity 101
- ❑ CMAHRO TA Training – Mathematics
- ❑ Workplace Violence Awareness
- ❑ Employee Safety Orientation
- ❑ WHMIS 2015
- ❑ AODA\_Training: Accessibility Training

- ❑ **Complete your TA training (if you couldn't attend the in-person session)**

- ❑ **International students: provide your SIN to Human Resources as soon as you receive one (via Workday)**

# The in-person TA training will cover:

- An overview of the Instructional Support Group
- IA vs. TA work duties
- Resources available to TA staff
- How to mark/grade assignments
- Guidelines regarding conflict management\*

*\*If you become aware of or are approached regarding any situation involving harassment or discrimination it is important that you understand your responsibilities as a TA. The link below will provide you with information on how to respond in such situations. It also contains a memo from Jeff Casello, Associate Vice President - Graduate Studies and Postdoctoral Affairs and links to Policy #33, Policy #42 and other relevant documents.*

[Guidelines for Teaching Assistants \(TAs\) | Conflict Management & Human Rights Office \(uwaterloo.ca\)](#)

*Please ensure that you have read through and understand this information so that you are prepared to respond if a situation involving harassment or discrimination arises.*



# **4. COURSE ENROLLMENT**

# COURSE ENROLMENT TIMELINE

View more on the [GSPA Important Dates calendar](#)

**1 month before term**  
Course enrolment begins

## **Class enrolment period**

- During this period, use Quest to enrol in and drop classes.
- If you are not “fees arranged” by end of class enrolment period, your classes will be dropped.

**After 3 weeks into term**  
Course enrolment ends

## **Class drop with grade of Withdrawn, no credit granted (WD)**

- During this period, you can continue to drop classes in Quest – however a grade of “Withdrawn, no credit granted” will be applied and remain on your transcript. WD is not an academic penalty
- Classes can be added with a drop/add form

**After 2.5 months into term**  
End of WD period

## **Beyond...**

- Only students with special circumstances can petition to drop a class with a course drop/add form

# Remedials and non-required courses

## Remedials

- Remedial courses add with a DROP/ADD form (unless at the graduate level). You should receive an email from the Undergrad office with a permission # for any remedial courses.
- Remedials must be completed in your **first 2 terms**.
- EMLS (remedial courses) do NOT count towards a student's grad course count for a term. EMLS 601R (speaking) & 602R (writing) can be taken in the same term.

## Non-required courses

- Additional courses taken for credit but not included in your program requirement must be assigned XTRA and submitted on a DROP/ADD form ASAP.
- AUDIT/READING courses add with a DROP/ADD form.

# Housekeeping note

- **Discuss all of your course enrolments with your supervisor.** They should always know how many and which courses you are taking.
- **Please only enroll in the number of courses you are allowed to take that term for your program.**
- **Please do not over-enroll in courses.** This ties up spots from other students who might need that particular course to complete their degree! Course enrollment is monitored and we do not want to email you to drop courses.

# **5. MMATH CO-OP OPTION**

# CO-OP PREPARATION TIMELINE

View more on the [CS Website, under Math Coop Option](#)

Now

## Determine if Co-op is a good option for you

- Discuss the co-op option with your supervisor
- International students: meet with the [Student Success Office](#) to understand the process for applying for a work permit (required for co-op program)

Term prior to your first  
co-op work term,  
*2 weeks before the 100%  
refund deadline*

## Form submissions

- Submit a *program/plan change form* and a *sequence change form* to add the co-op option to your program and set your study/work term cycle, respectively.

## Meet course requirements

- Ensure you've completed four courses toward your coursework requirements
- Ensure you've completed your remedials (if applicable)

# RECOMMENDED SEQUENCE FOR CO-OP

Term	Term count	Type of term	Action/notes
S25	1	Academic	<ul style="list-style-type: none"> <li>Take 2 out of 4 of the required courses</li> </ul>
F25	2	Academic	<ul style="list-style-type: none"> <li>Take 2 out of 4 of the required courses</li> <li>Apply to co-op program</li> </ul>
W26	3	Academic (Master's Thesis Co-op program begins)	<ul style="list-style-type: none"> <li>Thesis research</li> <li>Actively searching for a co-op position</li> </ul>
S26	3.5	Co-op work term	<ul style="list-style-type: none"> <li>Master thesis co-op</li> </ul>
F26	4	Co-op work term	<ul style="list-style-type: none"> <li>Master Thesis co-op</li> </ul>
W27	5	Academic term	<ul style="list-style-type: none"> <li>Co-op work report due 30 days after your work term</li> <li>Thesis research</li> </ul>
S27	6	Academic term (if needed)	<ul style="list-style-type: none"> <li>Thesis research</li> </ul>

# WIL 601

Students interested in co-op will need to take the mandatory course:

**WIL601: Career Foundations for Work-Integrated Learning.**



**You will learn the tools, strategies and resources to effectively prepare for your upcoming WIL experiences**

- Critically reflect on your career values and goals.
- Identify, evaluate and articulate your current skillsets and the competencies you are developing in graduate school.
- Learn strategies for networking and the job search process, and how to cultivate meaningful career development during and after your WIL experience.
- Connect with Centre for Career Development (CCD) advisors through synchronous sessions.



# **6. KEY REMINDERS**

# Getting set-up at UW: A checklist

- ☐ **Regularly check your UWaterloo email**

Your email was set-up when you matriculated. Ensure you use your @uwaterloo.ca email (not @edu.uwaterloo.ca) for all updates!

- ☐ **Update your local mailing address in Quest as soon as possible**

The university uses this as your primary mailing address. Inter-university mail can be picked up in the mailboxes in DC 2583.

- ☐ **Pick up your keys/fobs for your office**

Pick up your fobs from CS Admin Office, and keys from Key Control GSC 1101 (if you need a key, you'll have received an alert by email from Key Control)

- ☐ **Complete the “Confidentiality Agreement” on LEARN**

- ☐ **Read the Orientation summary email**

In particular, review the ‘Important Links for Graduate Students’ that will be included in your summary email. They are a great resource!

# Further reminders for International Students

- 1. Remember to get your SIN as soon as possible!**  
In order to get paid for TA, you need to provide your SIN Number to Human Resources. This is completed as part of your onboarding through Workday.
- 2. The Student Success Office is your go-to for student permit/immigration questions**  
You can contact an [immigration consultant](#), visit them in-person at South Campus Hall (2<sup>nd</sup> floor), or email them at [success@uwaterloo.ca](mailto:success@uwaterloo.ca)
- 3. You are automatically enrolled in the UHIP health plan**  
International Graduate students are charged the UHIP fee during every term, including Inactive terms, to ensure continuous coverage for the duration of your program. If you have a family member here they MUST register for UHIP within 30 days!
- 4. Review our [International Student resources](#)**  
In particular, the [International Student Guide](#) can be helpful to prepare for your studies

# Tips for a successful program at UW

**1. Read the bi-weekly CS Grad Office email**

Deadlines and updates are communicated in this email. Don't miss it!

**2. Always complete forms electronically**

**3. When in doubt, ask us!**

Please come to our drop-in hours, or send us an email – we're happy to help!

Your graduate program is your responsibility.  
Please stay informed on processes and requirements. Feel free to ask your  
supervisor/coordinator for clarification at any time.

# Key contacts

Reason	Email	Contact	Drop-In office hours (Spring '25)
General Inquiries	<a href="mailto:cs-gradoffice@uwaterloo.ca">cs-gradoffice@uwaterloo.ca</a>	Co-op Student	Tu, W, Th 10 – 11:30am
GRS Funding	<a href="mailto:cfinance@uwaterloo.ca">cfinance@uwaterloo.ca</a>	Nadine WitmerZinger/ Cecilia Martin-Grant	Tu, W 10 – 11:30am
TA Inquiries/Extensions	<a href="mailto:csgtaschol@uwaterloo.ca">csgtaschol@uwaterloo.ca</a>	Makenna Ryder	W, Th 10 – 11:30am
Scholarships/Manager	<a href="mailto:cmanager@uwaterloo.ca">cmanager@uwaterloo.ca</a>	Denise Shantz	Tu, W, Th 10 – 11:30am
PhD Program	<a href="mailto:csphd@uwaterloo.ca">csphd@uwaterloo.ca</a>	Nadine WitmerZinger	Tu, W 10 – 11:30am
MMath Program	<a href="mailto:csmaster@uwaterloo.ca">csmaster@uwaterloo.ca</a>	Cecilia Martin-Grant	Tu, W 10 – 11:30am
Course scheduling	<a href="mailto:cgschedule@uwaterloo.ca">cgschedule@uwaterloo.ca</a>	Amy Todd	W, Th 10 – 11:30am

Please email any of us anytime. We will reply via email and book an MS Teams or in person meeting. We are here to help you!

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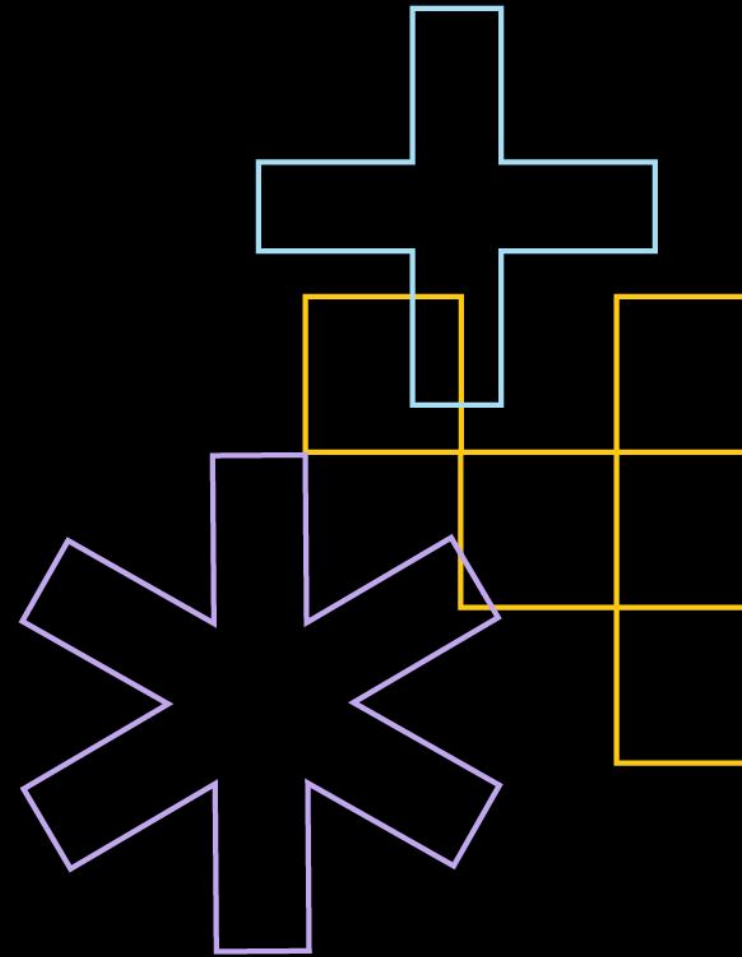
**DAVID R. CHERITON SCHOOL  
OF COMPUTER SCIENCE**

# Computer Science Grad Students & the Library

4/23/2025

Rebecca Hutchinson,  
Computer Science Librarian

[r3hutchi@uwaterloo.ca](mailto:r3hutchi@uwaterloo.ca)



# Personalized research support

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Virtual and in-person consultations available

Designed for your specific research needs





# Personalized research support

For all stages of the research process. For example, here are some recent questions from other CS grad students:



I found a reference to a paper from the 1978 International Conference on Parallel Programming, but I can't locate the full text anywhere. Are we able to get a copy?



I'm working on a literature review on improving machine learning systems for medical image analysis, but I'm worried I've missed some important research. Can you help me?



My .bib file is getting long, is there a more efficient way to track and manage BibTeX and papers?



How does Zotero work with Overleaf?



Can I use this image from this published article in my thesis?



I haven't heard of this conference before, is it predatory?



The place I'm publishing requires a DOI for my supporting data, how do I get one of those?

# **Computer science research guide**

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The best place to get started with your research

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# Computer science research guide



The computer science research guide provides access to paid-for resources

- Brings important 'how-to' information together in one place
- It also has my contact info



Tip! Connect Google Scholar to the Library for easy access to papers behind paywalls

- Go to Google Scholar's settings, then choose Settings and click "Library Links" to add the University of Waterloo

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Conference proceedings, books, articles, magazines, newsletters, and multimedia titles relating to computing and information technology.  
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Resources for computer science, electrical engineering, electronics engineering, and mechanical engineering.  
**Coverage:** 1988 - present  
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- [DBLP Computer Science Bibliography](#)  
From the University of Trier, the "DBLP indexes more than 2.6 million articles and contains many links to home pages of computer scientists."
- [ACL Anthology](#)  
Browse through papers on the study of computational linguistics and natural language processing
- [Eurographics Digital Library](#)  
Computer graphics.  
**Coverage:** 1980s - present

### Multidisciplinary research databases

Not sure where to start? The databases below cover many disciplines including math, business, economics, health, life science, physical science, and technology.

- [Scopus](#)  
Peer-reviewed literature from scientific journals, books and conference proceedings, covering the fields of science, technology, medicine, social sciences, and arts and humanities.  
**Coverage:** 1966 - present
- [Web of Science](#)  
Articles and citations in the sciences, social sciences, arts, and humanities.  
**Coverage:** Varies  
[more...](#)
- [Google Scholar](#)  
Google Scholar is a search engine finds scholarly information from many sources (however, not everything in Google Scholar is scholarly). To access materials paid for by your library, go to Google Scholar, then choose Settings and click "Library Links" to add the University of Waterloo.  
[more...](#)
- [arXiv](#)  
A pre-print server which hosts papers (that have not been peer

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Waterloo uses IP authentication to ensure you're able to access what we pay for (when off campus you might not get access through Google/ a publisher's website – use library resources instead)



# Access to library materials



Access to online journals, articles, conference papers, and ebooks

- Start at the [Computer Science research guide](#) or the [Library's website](#) for access to full text (you will be prompted to log in with your Waterloo email address)



Print books

- Request a print book through the [Library's catalogue](#)
- Pick it up from the Help Desk or have it mailed to you (within Canada)



More help

- [Library Chat and FAQs](#)

# Library spaces

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You are welcome in any library on campus



# Library spaces



## Davis Centre Library

- 8am–11pm Monday–Friday
- 11am–11pm Saturday & Sunday
- Computer science collection
- Computers, printing, photocopying, and scanning
- Individual study space
- Group study space
- IST Help Desk
- Library Help Desk



## Dana Porter and other libraries on campus





# When you're ready to get started

*eeeeeeee*

Visit the Computer Science research guide

Book a meeting or email me: [r3hutchi@uwaterloo.ca](mailto:r3hutchi@uwaterloo.ca)

