THOMAS KIELSTRA

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Education

Ph.D. in Applied Mathematics (Expected defence July 2023)
Master's of Science: Applied Mathematics (Year of Graduation: 2019)
Bachelor's of Science: Honours in Applied Mathematics *with Distinction (*Year of Graduation: 2018)

WORK EXPERIENCE

Sessional Lecturer: 2022-present
Teaching Assistant: 2016-2022
Personal Tutor: September 2013 – Current
Instructor at Mathnasium Learning Centre: 2018-2020
Guelph SERVE 2018 host team coordinator: July 2018
Cluster Leader University of Guelph: 2015-2017

AWARDS

- College of Engineering and Physical Sciences Society of Excellence
- Graduate Excellence Entrance Scholarship
- Graduate Tuition Scholarship

Sessional Lecturer/Adjunct Professor

As a sessional lecturer at the University of Toronto (Scarborough Campus), in the Fall 2022 semester I was a sessional lecturer for a multi-section introduction to calculus course for business students. This course was coordinated by Dr. Raymond Grinnell. In the winter semester of 2023 was an Adjunct Professor for Redeemer University, for their Introduction to Statistics course for Mathematics Students and their Introduction to Numerical Methods course. Currently I am the sole instructor for a two section linear algebra course and the University of Toronto (Scarborough Campus) The following is a list of my duties for each to the courses that I have been/am a sessional lecturer.

- MATB24 (Summer 2024) Linear Algebra II (University of Toronto, Scarborough)
    - Sole instructor for a two-section course, responsible for all aspects of the course.
    - Responsible for coordinating four TAs, ensuring that the duties assigned are not only fair, but will enable them to develop skills that they can use in the future, if they would like to become a lecturer one day.
    - Work with the administration staff to provide appropriate accommodations for those completed the appropriate steps to receive them.

- MAT 215 (Winter 2023) Introduction to Statistics (Redeemer University)
    - Instructor of a single section class responsible for all aspects of the course.
    - Assignments include a theoretical and computational component (using R).
    - Two-part final exam. First hour is closed book and focuses on theory, while the remaining two hours are open book and focus on applying knowledge using statistical software.

- MAT 311/411 (Winter 2023) Numerical Analysis (Redeemer University)
    - Instructor of a single section class responsible for all aspects of the course.
    - Assignments include a theoretical and computational component (using Octave)
    - This course is a split class with additional requirements for the fourth-year students. This includes a project where students review a numerical method from the course text, which is not covered in the lectures, using the techniques developed withing the lectures.

- MATA32 (Fall 2022) Calculus for Management I (University of Toronto Scarborough)
    - Create and present Lecture materials for a class of 300 students
    - Host 3 hours of office hours a week
    - Help review and make changes to midterm to make sure the content and difficulty of the exam is appropriate. Discussing with the course coordinator what content should be on the midterm and what content should be covered by later examinations.
    - Meet weekly with the course coordinator (Dr. Raymond Grinnell) to ensure that we are not only teaching the same material, but also presenting it in a similar manner.

Teaching Assistant (TA)

As a teaching assistant at the University of Guelph I have helped create lecture materials for future courses; taught lectures and labs; created, edited and graded assignments and exams; hosted office hours and been responsible for helping students with special accommodations. The following is a list of classes that I have been a TA, giving details for how often I have been a TA for a given course and a brief explanation for the tasks that I was asked to complete:

- Math and Stats Learning Centre (F16, F17, W18, W19, F19 and W20) (University of Guelph)
    - Helped students overcome specific challenges they faced when trying to understand a variety of topics covered in their first-year math courses.
    - Helped students become aware of the gaps in their high school mathematics, provide the necessary instruction to overcome these shortcomings while still making them feel encouraged and supported.
- Math*1030 (S20, W22, S22 and F22) Introduction to Business Mathematics (University of Guelph)
    - Hosted office hours and answered students' emails.
    - Invigilated and Graded Midterms and Final Exams.
    - Coordinated the scanning and uploading of the exams to Crowdmark, ensuring the department's equipment was used properly and returned properly.
    - Worked with SAS to make accommodations available using Crowdmark.
- Math*1080 (F17, F18, F19, F20, F21 and F22) Elements of Calculus (University of Guelph)
    - Helped edit review material and possible future course work; Graded and regraded midterms and final exams.
    - Taught weekly labs tutorials.
    - Hosted office hours and answered students' emails.
    - Worked with Student Accessibility Services (SAS) to make accommodations available.
    - Taught 3 sections of Dr. Steve Gismondi's course in 2018 for one week.
- Math*1090 (W19 and W21) Elements of Calculus II (University of Guelph)
    - Taught labs tutorials every other week.
    - Invigilated, graded and regraded midterms and final exams/Coordinated with SAS.
    - Hosted office hours and answered students' emails.

- Math*1160 (W21 and W22) Linear Algebra I (University of Guelph)
    - Hosted office hours and answered students' emails.
    - Invigilated, Graded and regraded midterms and final exams.
    - Helped edit Quizzes, Midterms and the Final Exam.
    - Helped make changed to the course website.
    - Worked with SAS to make accommodations available.
- Math*1200 (F17, F19 and F20) Calculus I (University of Guelph)
    - Invigilated and Graded Tests, Midterms and Final Exams.
- Math*1210 (W19) Calculus II (University of Guelph)
    - Invigilated and Graded Tests, Midterms and Final Exams.
- Math*2000 (W22) Advanced Calculus I (University of Guelph)
    - Invigilated, Graded and regraded assignments.
- Math*2130 (W18, W19 and W20) Numerical Methods (University of Guelph)
    - Taught weekly MATLAB based Labs under Dr. Allan Willms and Dr. Matthew Demers.
    - Graded and regraded Midterms and Final Exams.
    - Taught a lecture for Dr. Allan Willms.
- Math*3160 (F21 and F22) Linear Algebra II (University of Guelph)
    - Hosted office hours and answered students' emails.
    - Invigilated, Graded and regraded Midterms and Final exams.
    - Graded and regraded midterms and final exams/Coordinated with SAS.
    - Taught two weeks of lectures.
- Math* 3240 (F21) Operation Research (University of Guelph)
    - Hosted office hours and answered students' emails.
    - Invigilated, graded and regraded midterms and final exams/Coordinated with SAS.
    - Helped make changes to the Courselink webpage for the course.
- Math*3260 (W22) Complex Analysis (University of Guelph)
    - Hosted office hours and answered students' emails.
    - Printed, solely invigilated, graded and regraded midterms/Coordinated with SAS.
    - Reviewed the first midterm explaining solutions and common errors.
    - Taught an in-person lecture that was also available virtually.
- Math*3510 (W22) Biomathematics (University of Guelph)
    - Hosted office hours and answered students' emails.
    - Invigilated, graded and regraded midterms and final exams/Coordinated with SAS.
    - Taught a virtual lecture.
- Math*4240 (F21) Advanced Topics in Modeling (University of Guelph)
    - Hosted office hours and answered students' emails.
    - Graded and regraded papers and the final project.

Personal Tutor

Over 2000 hours teaching University Math Course Material. I have had past clients for every first-, second- and third-year math course offered by the University of Guelph.

Mathnasium Learning Centre

Instructors at Mathnasium Learning Centre work with students from Grades 2-12. Their objective is to create a caring and encouraging environment to allow students to thrive, learn and in some cases develop a passion for Mathematics.

Guelph SERVE 2018 host team coordinator
SERVE is a summer program of the Christian Reformed Church in North America - groups of teenagers from all over North America come to a community to carry out a week of community service projects. The host team coordinator is responsible for creating a schedule, coordinating worksite and volunteers, keeping track of budget and expenses, conducting nightly meetings with group leaders, filling out injury reports and being the main contact for parents of the 55 youth attending.

Cluster Leader
A cluster leader is the academic liaison for a group of approximately 50 students in residence at the University of Guelph. A cluster leader helps students adjust to the academic side of university life, helping students write emails, find good study materials and even facilitate study sessions with their professors within residence.

Speaking engagements

- Southwestern Ontario Graduate Mathematics and Statistics Conference - 2018

Skills

- Strong ability to organize time and accomplish tasks
- Strong ability to communicate fundamental mathematical principles to a large audience
- Extensive knowledge of Linear Algebra and Calculus
- Strong ability to use MATLAB, Latex, D2L, Crowdmark, and Microsoft Office

References

Dr. Rajesh Pereira - pereirar@uoguelph.ca
Chair of the Department of Mathematics and Statistics at the University of Guelph
Dr. Raymond Grinnell - raymond.grinnell@utoronto.ca
Associate Professor, Teaching Stream, at the University of Toronto Scarborough Campus
Dr. Steve Gismondi - gismondi@uoguelph.ca
Associate Professor at the University of Guelph
Dr. Allan Willms - awillms@uoguelph.ca
Professor at the University of Guelph
Dr. Nagham Mohammad - naghamm@uoguelph.ca
Assistant Professor at the University of Guelph
Dr. David Kribs - dkribs@uoguelph.ca
IQC Associate Professor at the University of Guelph
Dr. Monica Cojocaru - mcojocaru@uoguelph.ca
Professor at the University of Guelph