

# Math 1553

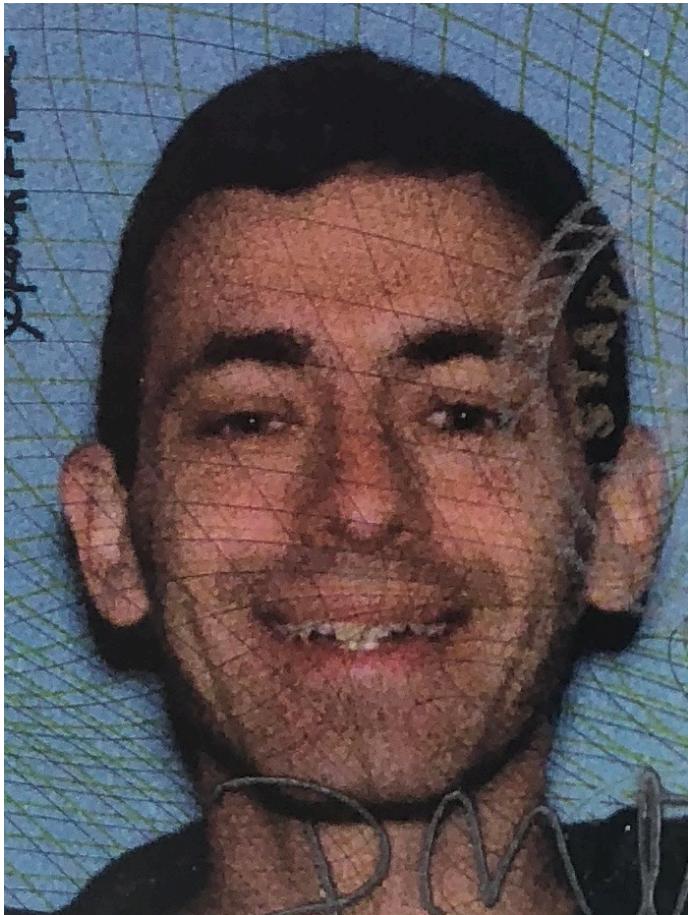
Section M (M01-M05)

Georgia Tech Fall 2021

Dan Margalit

Me

# About Me



DOB 03/06/1976

Sex M

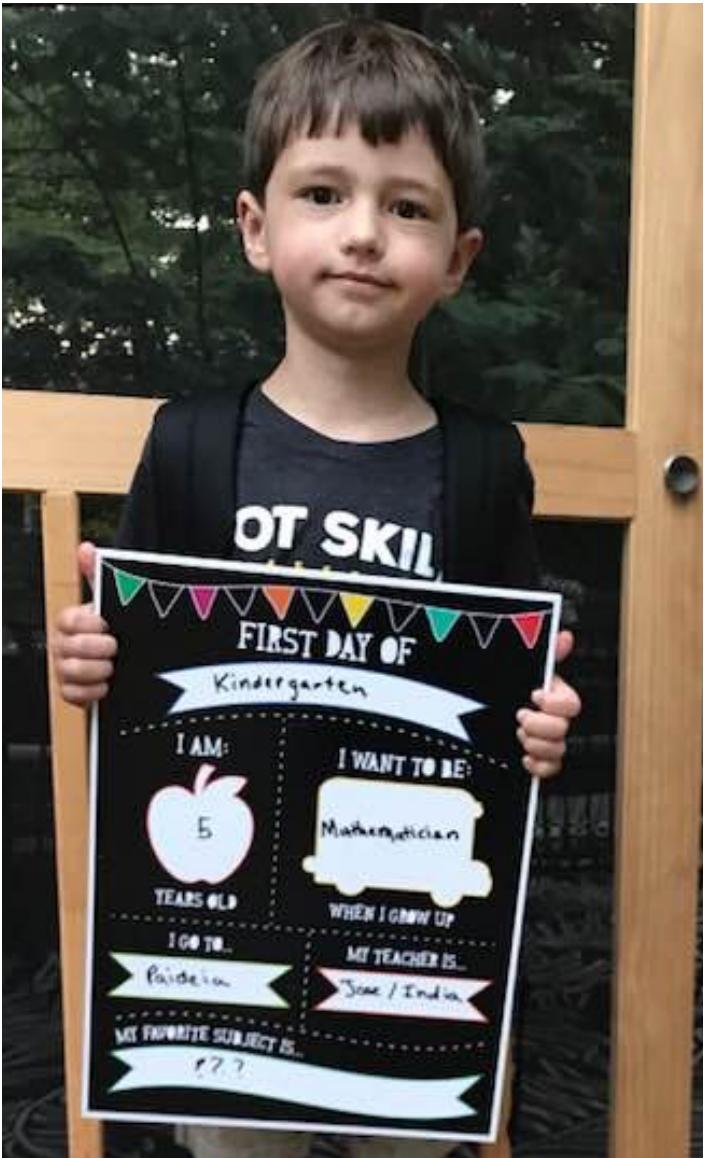
Eyes HAZ

Hgt 5'-10"

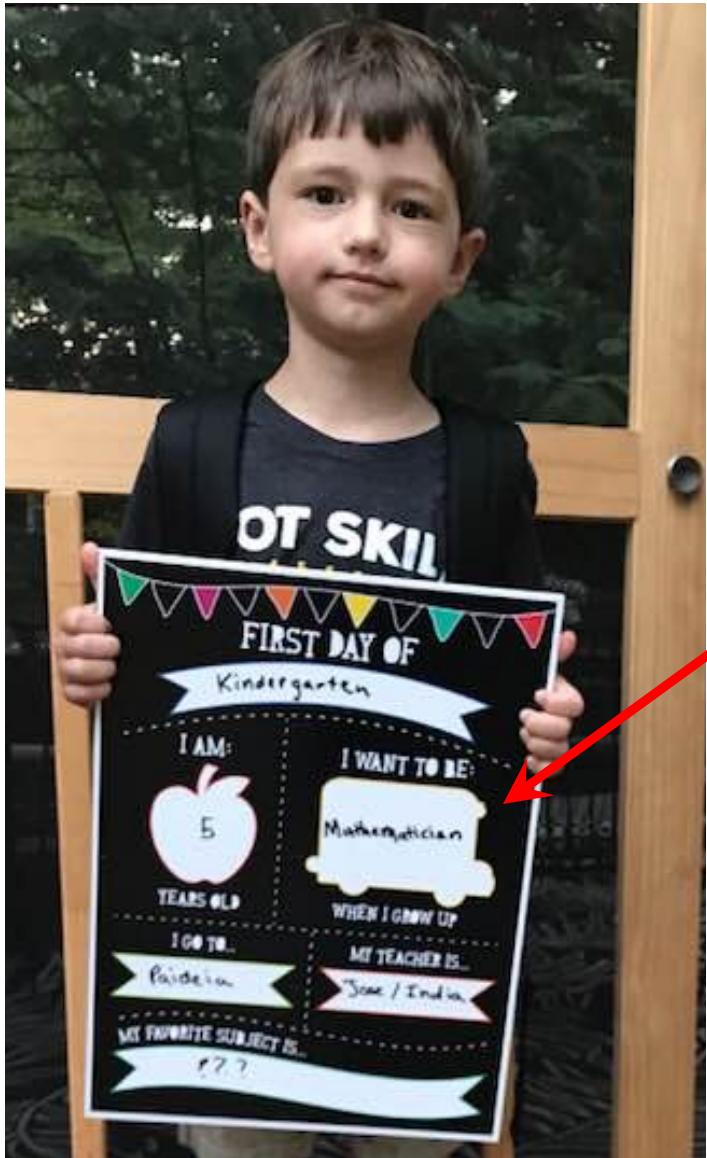
Wgt 145 lb

Donor ❤

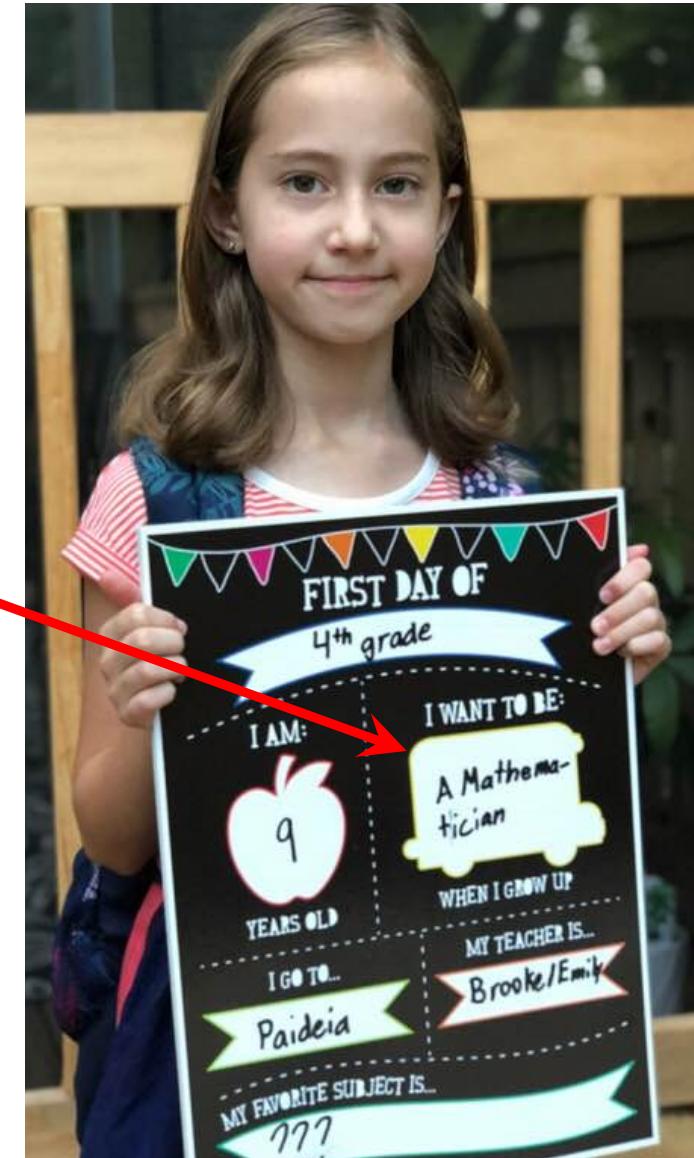
# More About Me



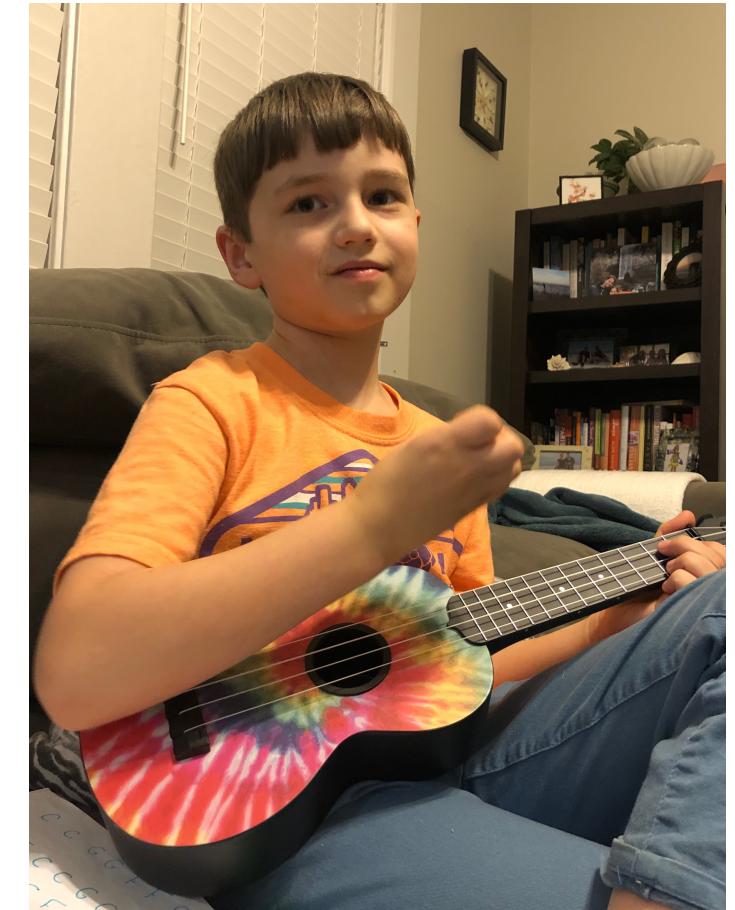
# More About Me



Winning



# Some things in my house



# More About Me

I like...

# More About Me

I like...

- Cake

# More About Me

I like...

- Cake
  - Chocolate

# More About Me

I like...

- Cake
  - Chocolate
  - Double Chocolate

# More About Me

I like...

- Cake
  - Chocolate
  - Double Chocolate
  - Death by Chocolate

# More About Me

I like...

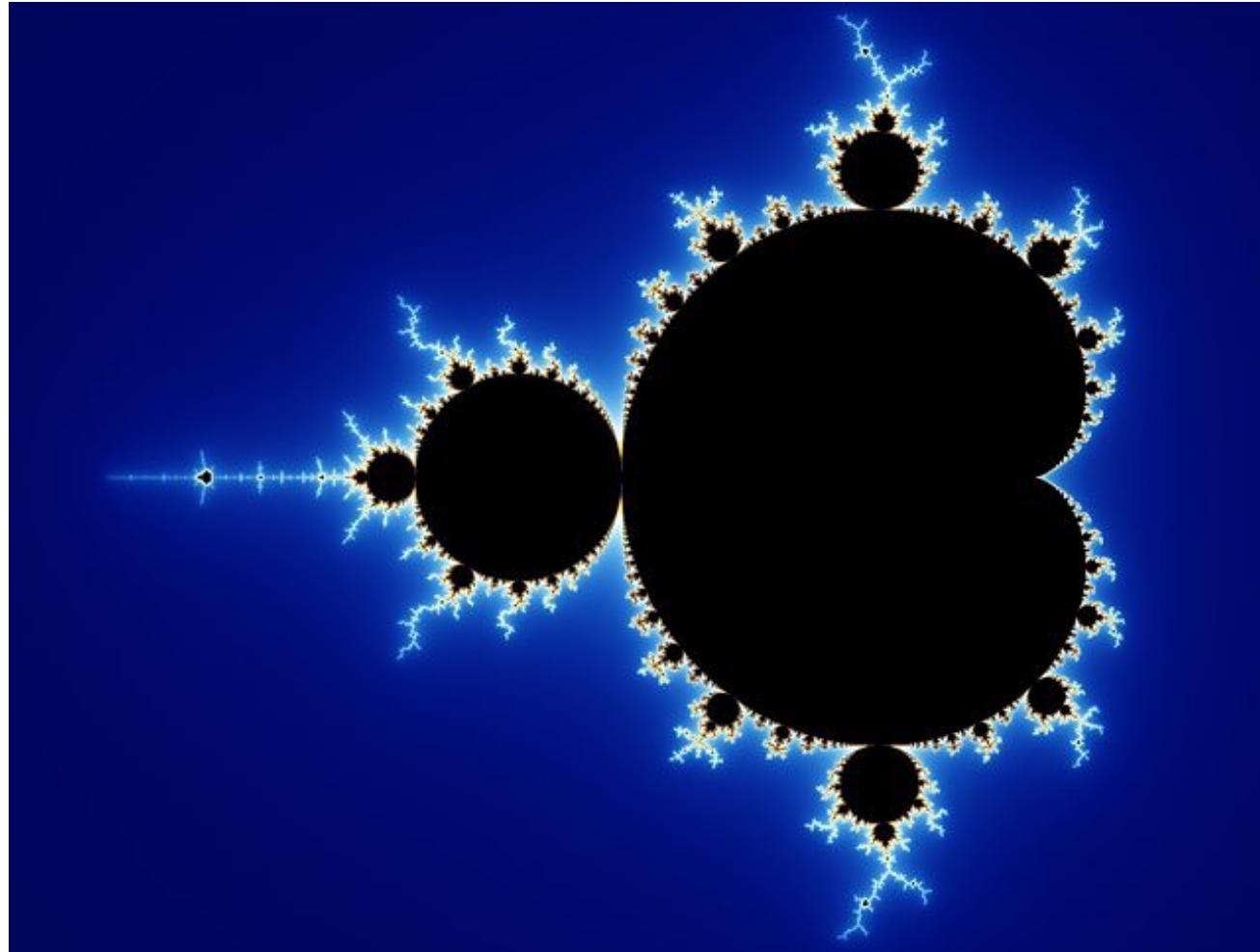
- Cake
  - Chocolate
  - Double Chocolate
  - Death by Chocolate
- Bringing me cake will not:
  - improve your grade
  - help you learn linear algebra

# More About Me

I like...

- Cake
  - Chocolate
  - Double Chocolate
  - Death by Chocolate
- Bringing me cake will not:
  - improve your grade
  - help you learn linear algebra
- Bringing me cake will:
  - allow me to eat cake

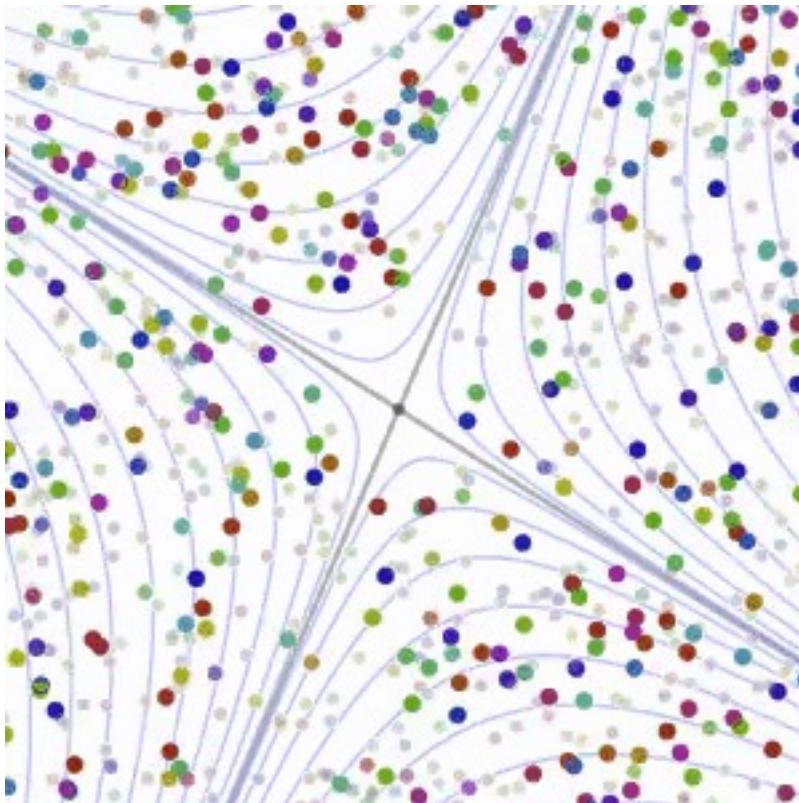
# Even More About Me



# The class

Textbook

# Textbook



## *Interactive Linear Algebra*

Dan Margalit & Joe Rabinoff

The textbook is **free** and **online**.

Lay & MyMathLab are resources you can buy. I will **not** use them.

# Canvas

Intro to Linear Algebra - MATH-1553-C

gatech.instructure.com/courses/210776

MATH-1553-Combined > Syllabus

Fall 2021

# Intro to Linear Algebra - MATH-1553-Combined

Jump to Today

Edit

Course Status

Unpublish Published

Import Existing Content

Import from Commons

Choose Home Page

View Course Stream

Course Setup Checklist

New Announcement

New Analytics

View Course Notifications

Calendar

Inbox (88)

History

Commons

Help (6)

Account

Dashboard

Courses

Syllabus

Piazza

MyLab and Mastering

GaTech Roster

Well-Being Connect

Mental Health Resources

Outcomes

The syllabus contains detailed information about course policies. In addition, we have a course calendar with a detailed schedule as part of a common course website containing additional details, tips, and links to resources.

Our textbook is the free online book [Interactive Linear Algebra](#) by Dan Margalit and Joseph Rabinoff.

The syllabus and calendar are subject to change without notice as the semester approaches (and also at the beginning of the semester), but we do not expect major changes.

Check out the [interactive row reducer](#).

## Lectures and Instructors

**Lecture A:** Prof. Chris Jankowski  
Lectures: MW 8:25-9:15 AM in Howey (Physics) L4  
Office hours: Mondays 1:30-3:30 PM online [here](#) and Tuesdays 10:30 AM - 12:30 PM online [here](#).

**Lecture B:** Prof. Alperen Ozdemir  
Lectures: Monday 8:25-9:15 AM online at <https://bluejeans.com/190597441> (also accessible through the BlueJeans tab on the left), and Wednesdays 8:25-9:15 AM in College of Business 300  
Office hours: TBA

**Lecture D:** Prof. Alperen Ozdemir  
Lectures: Monday 9:30-10:20 AM online at <https://bluejeans.com/265160847> (also accessible through

<	August 2021							>
25	26	27	28	29	30	31		
1	2	3	4	5	6	7		
8	9	10	11	12	13	14		
15	16	17	18	19	20	21		
22	23	24	25	26	27	28		
29	30	31	1	2	3	4		



- Discussions
- BigBlueButton (Formerly Conferences)
- Collaborations
- Modules
- Settings
- Courses
- Calendar
- 88 Inbox
- History
- Commons
- 6 Help

←

**Discussions****Lecture G: Prof. Bo Lin**

Lectures: MW 12:30-1:20 PM in Boggs B5 and also online at [here](#).

Office hours: Mondays at 3:30-4:30 PM [here](#) and Thursdays at 11:00 AM - 12:00 PM [here](#), online via Microsoft Teams. To access the live stream of lectures and office hours, please join the Microsoft Teams with code **dqzxa17**.

**Lecture H: Prof. Guillermo Goldsztein**

Lectures: Monday 12:30-1:20 PM online ([Join Monday lectures \(Microsoft Teams Meeting\)](#)) Or join by dialing +1 470-705-2566 Conference ID: 991133737), and Wednesdays 12:30-1:20 PM in Clough Commons 152

Office hours: Mondays at 3:00-3:50PM same link as lectures. Wednesdays at 9:00-9:50AM same link as lectures.

**Lecture I: Prof. Guillermo Goldsztein**

Lectures: Monday 2:00-2:50 PM online ([Join Monday lectures \(Microsoft Teams Meeting\)](#)) Or join by dialing +1 470-705-2566 Conference ID: 991133737), and Wednesdays 2:00-2:50 PM in Clough Commons 152

Office hours: Mondays at 3:00-3:50PM same link as lectures. Wednesdays at 9:00-9:50AM same link as lectures.

**Lecture J: Prof. Ashley Wheeler**

Lectures: MW 2:00-2:50 PM in Weber SST III 2

Office hours: TBA

**Lecture M: Prof. Dan Margalit**

Lectures: Online (Microsoft Teams) on a temporary basis. See email sent to Section M

Office hours: TBA

**Studio Sections and Teaching Assistants**

**A1:** Kalen Patton. Studio: Fridays 8:25 - 9:15 AM in Skiles 270

Office hours:



Account



Dashboard



Courses



Calendar



Inbox



History



Commons



Help



## Studio Sections and Teaching Assistants

**A1:** Kalen Patton. Studio: Fridays 8:25 - 9:15 AM in Skiles 270

Office hours:

**A2:** Zachary Brumbach. Studio: Fridays 8:25 - 9:15 AM in Skiles 271

Office hours:

**A3:** Geigh Zollicoffer. Studio: Fridays 8:25 - 9:15 AM in Skiles 154

Office hours:

**A4:** Tianhao Dai. Studio: Fridays 8:25 - 9:15 AM in Skiles 169

Office hours:

**A5:** Rayan Dabbagh. Studio: Fridays 8:25 - 9:15 AM in Skiles 171

Office hours:

**A6:** James Jutras. Studio: Fridays 8:25 - 9:15 AM in Skiles 256

Office hours:

**B1:** Joseph Cochran. Studio: Fridays 8:25 - 9:15 AM in DM Smith 207

Office hours:

**B2:** Ananda Badari. Studio: Fridays 8:25 - 9:15 AM in Skiles 170

Office hours:

**B3:** Jeremy Ortmann. Studio: Fridays 8:25 - 9:15 AM in Skiles 246

Office hours:

**D1:** Jeremy Ortmann. Studio: Fridays 9:30 - 10:20 AM in Skiles 268

Office hours:



Account



Dashboard



Courses



Calendar



Inbox



History



Commons



Help

**I6:** JD Flynn. Studio: Fridays 2:00 - 2:50 PM in Skiles 255

Office hours:

**J1:** Jieun Seong. Studio: Fridays 2:00 - 2:50 PM in Skiles 154

Office hours:

**J2:** Ivan Rocha. Studio: Fridays 2:00 - 2:50 PM in Skiles 170

Office hours:

**J3:** Patrick Zugel. Studio: Fridays 2:00 - 2:50 PM in Skiles 246

Office hours:

**M1:** Ian Lewis. Studio: Fridays 3:30 - 4:20 PM in Skiles 257

Office hours:

**M2:** Patrick Zugel. Studio: Fridays 3:30 - 4:20 PM in Skiles 168

Office hours:

**M3:** Zachary Brumbach. Studio: Fridays 3:30 - 4:20 PM in Skiles 270

Office hours:

**M4:** Ivan Rocha. Studio: Fridays 3:30 - 4:20 PM in Skiles 271

Office hours:

**M5:** Jieun Seong. Studio: Fridays 3:30 - 4:20 PM in Skiles 154

Office hours:

## Course Summary:

Date

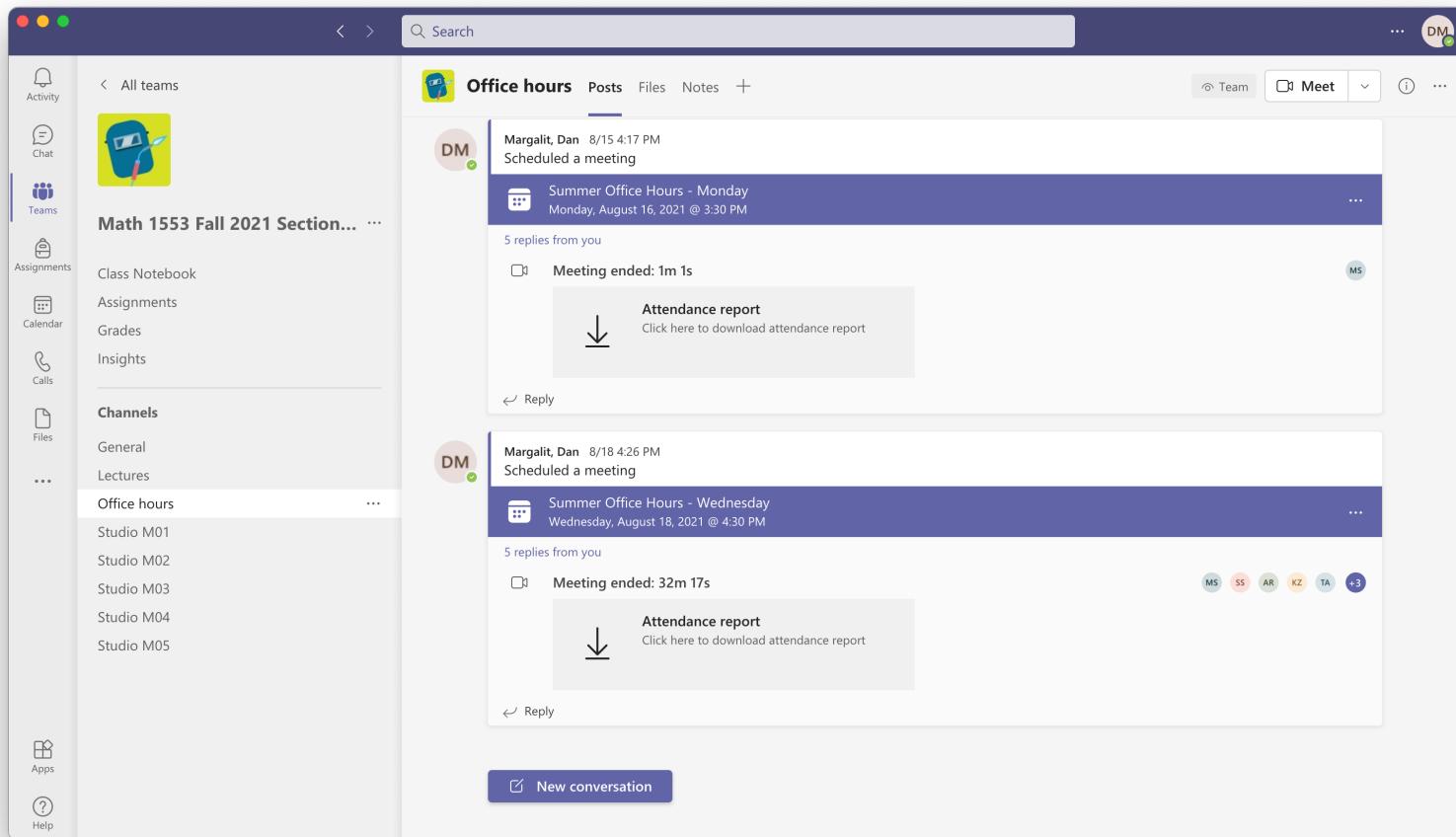
Details

Due

# Teams

# Microsoft Teams

On Microsoft Teams, you can find the lectures and streamed/recoded studios.



Piazza

# Piazza

- Accessible from Canvas
- If you have a question that is not specific to you, post on Piazza instead of email.
- In-class polls will be conducted on Piazza, not for a grade

The screenshot shows the Piazza platform integrated into a Canvas course. The left sidebar of the Canvas interface is visible, showing various course navigation links like Home, Announcements, Assignments, Quizzes, Grades, People, Files, BlueJeans, Pages, Syllabus, Piazza, MyLab and Mastering, GaTech Roster, Well-Being Connect, and Mental Health Resources. The main content area displays the Piazza interface for the MATH-1553-COMBINED class. The Piazza header includes tabs for LIVE Q&A, Drafts, hw1 through hw10, project, exam, logistics, and other. Below the header is a search bar and a 'New Post' button. A list of posts is shown, categorized by time (Pinned, Yesterday, Today). Posts include 'Search for Teammates!', 'Introduce Piazza to your stu...', 'Get familiar with Piazza', and 'Tips & Tricks for a success...'. To the right of the post list is a 'Class at a Glance' summary with metrics such as 5 unread posts, 0 unanswered questions, and 0 unresolved followups. It also shows student enrollment (40 enrolled) and license status (active instructor license until Summer 2022). Below this is a 'Share Your Class' section with a demo link: [https://piazza.com/demo\\_login?nid=ksm7vyay6d6my&auth=47b5084](https://piazza.com/demo_login?nid=ksm7vyay6d6my&auth=47b5084). At the bottom is a '2021 Product Updates' section with a note about enterprise license agreements.

Your first assignment

# Mathematical Autobiography

The first assignment is to post a mathematical autobiography on Piazza, due Fri. Tag: **margalit-autobio** Aim for a paragraph, not a couple of sentences.

Include:

- A recognizable photo of you
- Preferred nickname
- Your major
- Anything about you that you'd like to share
- About your relationship with Math, including previous courses

# Assessment

Grades!

# Grades

Category	Percentage
Homework	15% (2 drops)
Quizzes	15% (1+ drops)
Midterms	45%
Final Exam	25%

If 85% of Section M does the CIOS at the end of the semester, a second quiz is dropped.

*90% is an A, etc. Target scores may be moved in your favor.*

# Exams

Exam	Date
Midterm 1	Sep 22 @ 8 pm – 9:15 pm <i>online</i>
Midterm 2	Oct 20 @ 8 pm – 9:15 pm <i>online</i>
Midterm 3	Nov 17 @ 8 pm – 9:15 pm <i>online</i>
Final Exam	Dec 14 @ 6 pm – 8:50 pm <i>online</i>

*Notify me **ASAP** if you have a conflict.*

*Quizzes and Exams are administered on Canvas Quizzes*

# Quizzes

- There are 7 quizzes, 15 minutes long, open 6:30 am – 8pm Fridays
- Administered on Canvas Quizzes
- Lowest quiz grade dropped (possibly one more, as above)
- Typical timing:

	Mon	Tue	Wed	Thu	Fri
<i>Week N</i>	Class		Class HW due on Week N-1 material		Quiz on Week N-1
<i>Week N+1</i>	Class		Class HW due on Week N material		Quiz on Week N

# Homework

- WeBWorK
- Generally due on Tue at 11:59 pm
- Sometimes more than one section per week (keep track on WebWork)
- Normally as many tries as you want, but there are a handful of problems with a limited number of tries. The problem will say.
- Once you get told your answer is correct, you have credit on that problem forever.
- Two lowest scores dropped

Redacted URL

WeBWorK MATH-1553\_SPRING2020

Logged in as 902781425. Log Out

**MAIN MENU**

- Courses
- Homework Sets**
- User Settings
- Grades
- Instructor Tools
  - Classlist Editor
  - Hmwk Sets Editor
  - Library Browser
  - Statistics
  - Student Progress
  - Scoring Tools
  - Email
  - File Manager
  - Course Configuration
  - Help
  -
- Report bugs

**webwork / MATH-1553\_SPRING2020**

# MATH-1553\_SPRING2020

Homework Sets	
Name	Status
<input type="checkbox"/> 0.0 Warmup will not be graded	open, due 01/10/2020 at 11:59pm EST
<input type="checkbox"/> 1.1 Linear Systems	will open on 01/06/2020 at 12:00am EST
<input type="checkbox"/> 1.2 Row Reduction	will open on 01/06/2020 at 12:00am EST
<input type="checkbox"/> 1.3 Parametric Form	will open on 01/13/2020 at 12:00am EST
<input type="checkbox"/> 2.1-2.2 Vectors and vector equations	will open on 01/20/2020 at 12:00am EST
<input type="checkbox"/> 2.3 Matrix Equations	will open on 01/27/2020 at 12:00am EST
<input type="checkbox"/> 2.4 Solution Sets	will open on 01/27/2020 at 12:00am EST
<input type="checkbox"/> 2.5 Linear Independence	will open on 01/27/2020 at 12:00am EST
<input type="checkbox"/> 2.6 Subspaces	will open on 02/03/2020 at 12:00am EST

**Course Info** **Edit**

**Under Assignments In Canvas.  
Warmup this week,  
not for a grade**

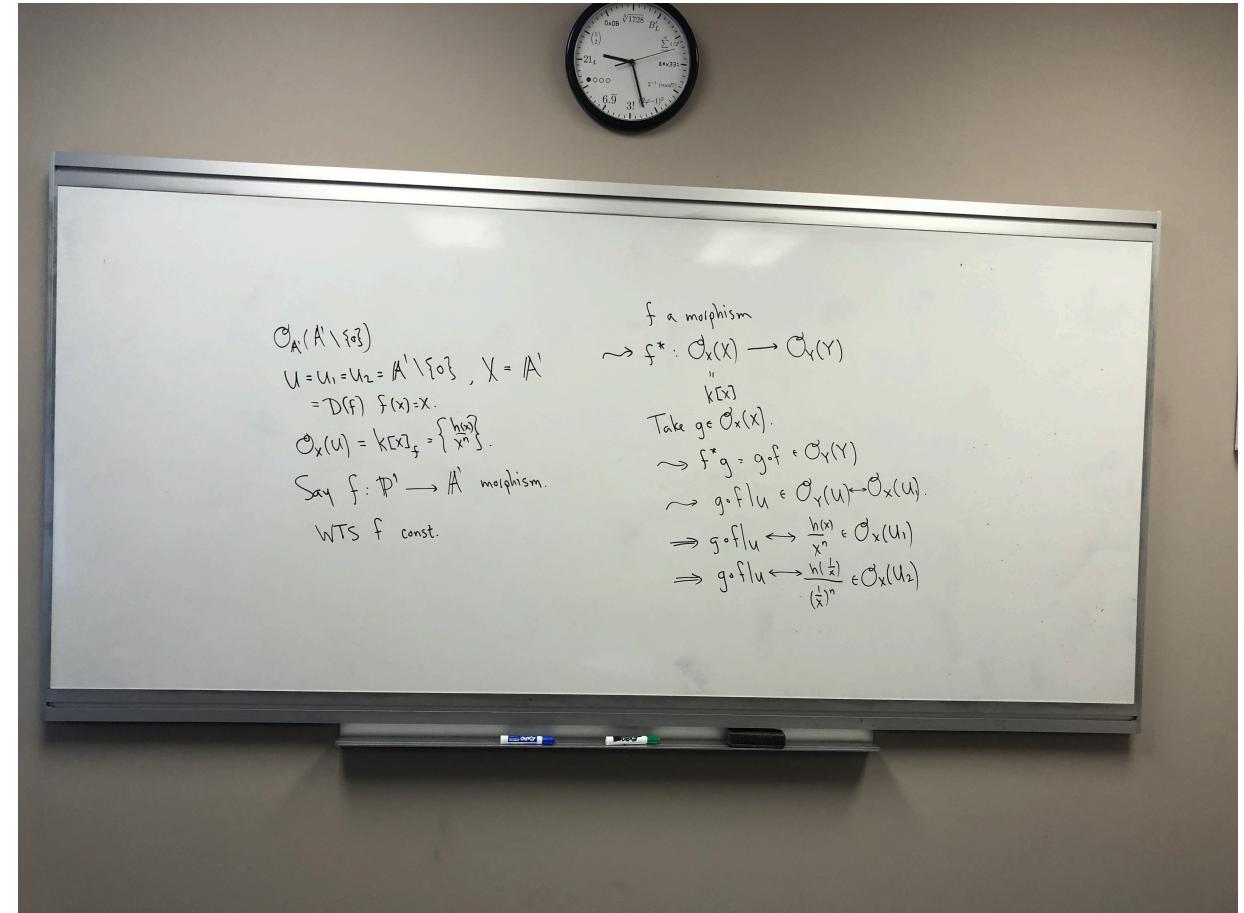
Advice, etc.

# Honor Code

- You should abide by the GT honor code at all times.

# Office Hours

- Microsoft Teams and in person
- Times to be announced
- You should come!
- Ok if you don't have questions



# General advice

- Talk through the material (again, office hours!)
- Be critical about whether you are understanding
- Get help as soon as you are not understanding
- Memorize important definitions as soon as they come up
- Practice

# Growth mindset

There is a prevalent belief that you are either “good” or “bad” at math, and if you are “bad” at it, then you will always be bad at it no matter how hard you try. This is false. Mathematics is just like any other discipline or skill: you can improve more and more with practice (think of any hobby you got better at over time).

Linear algebra will be completely new to most of you. You are all starting from the ground floor this semester.

# Statement of Inclusivity

I will strive to make this class accessible to people of all races, genders (including gender non-conforming individuals), sexual identities, and class backgrounds. While this is a priority for me, I do not claim to know how to best honor this commitment, and so I am very open to feedback from students when it comes to making the course more accessible and inclusive to all identities.

Also

If you need anything, please ask.

# Some Things that Make Me Happy

- Have your camera on
- Pay attention
- Bring energy
- Ask questions
- Email / online etiquette
- Say hi

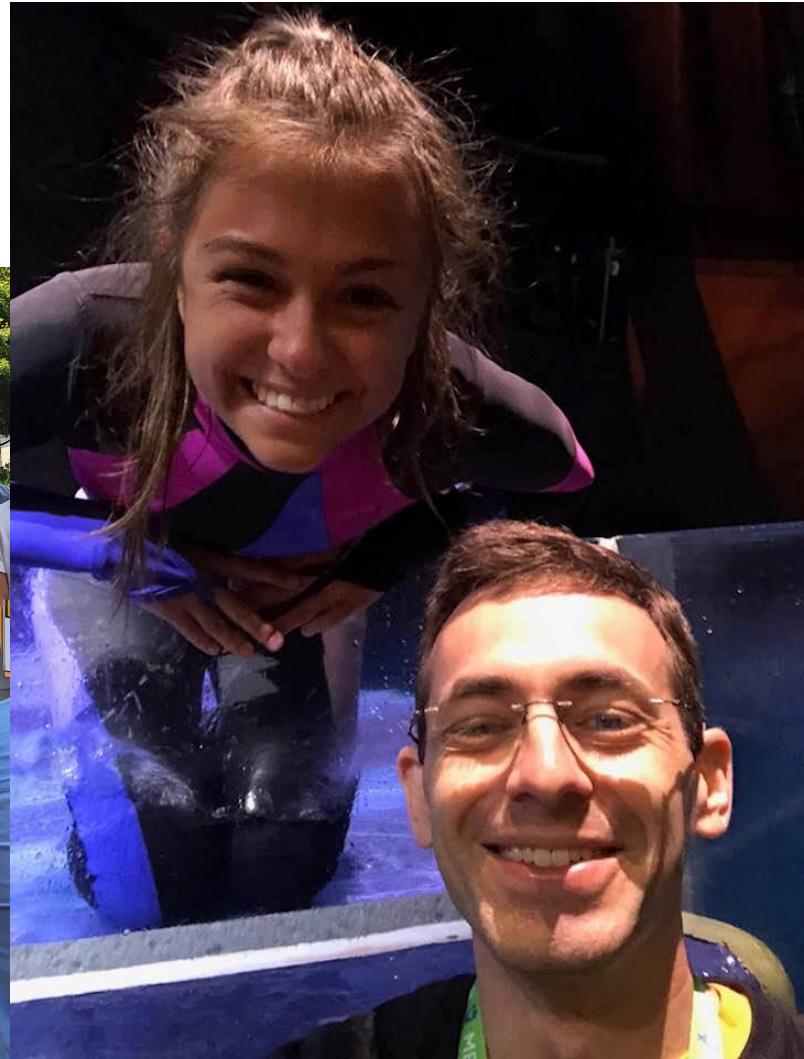
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# Some Things that Make Me Happy

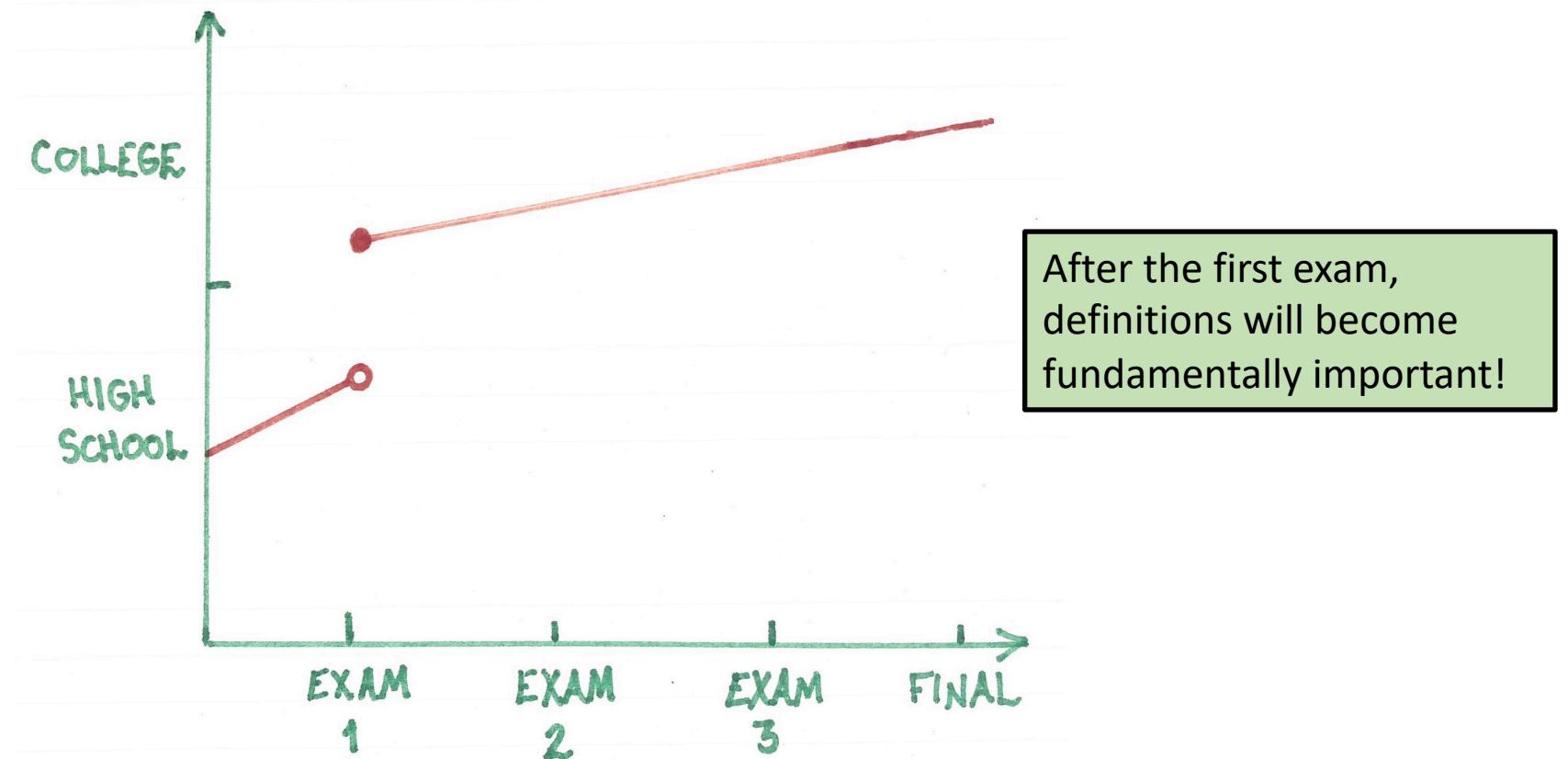
- Have your camera on
- Pay attention
- Bring energy
- Ask questions
- Email / online etiquette
- Say hi



# Asking questions

- Please ask questions!
- Kudos if your answers are not correct
- Will answer as many questions as I can

# Difficulty of the Course



# Good luck!

