

Math 1553

Sections D1-D4

Georgia Tech Spring 2020

Dan Margalit

Download the Piazza
app now if you can!

Me

About Me



DOB 03/06/1976

Sex M

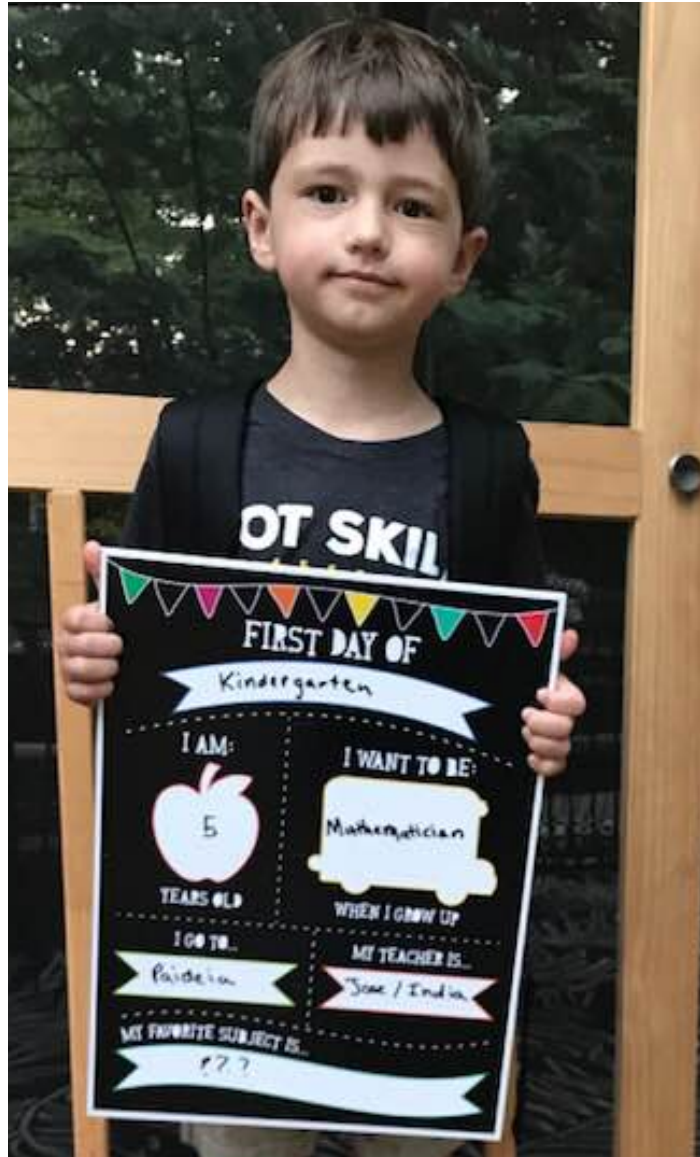
Eyes HAZ

Hgt 5'-10"

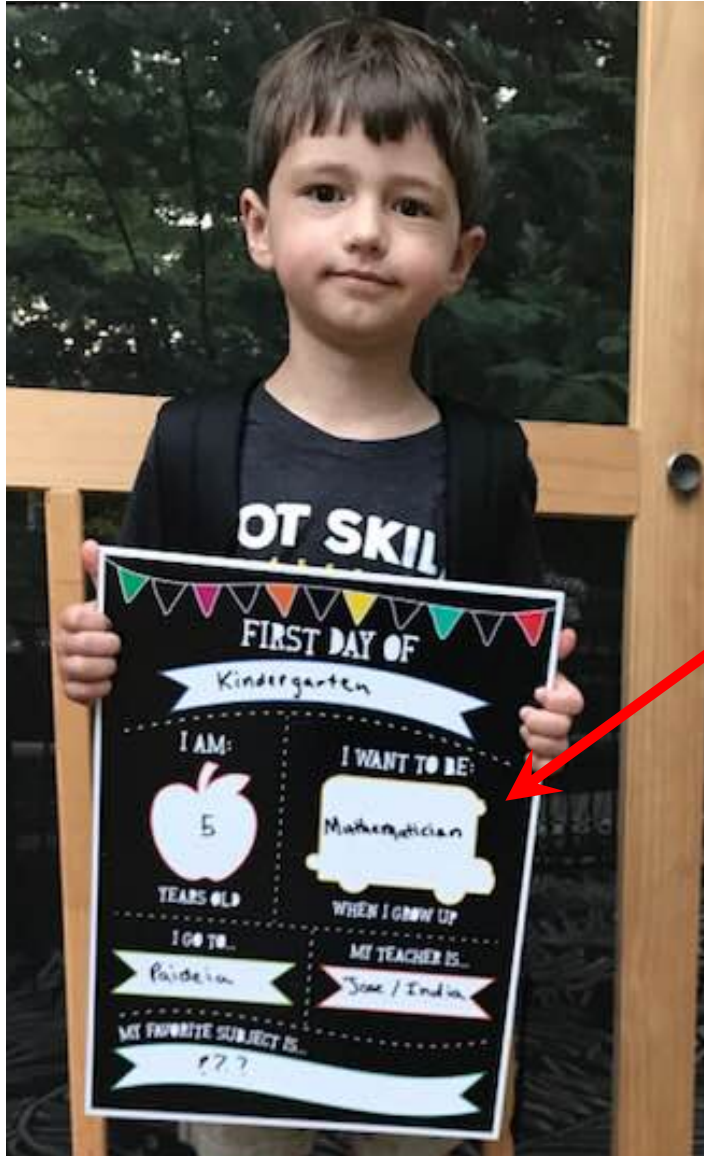
Wgt 150 lb

Donor

More About Me



More About Me



winning



More About Me

I like...

More About Me

I like...

- Cake

More About Me

I like...

- Cake
 - Chocolate

More About Me

I like...

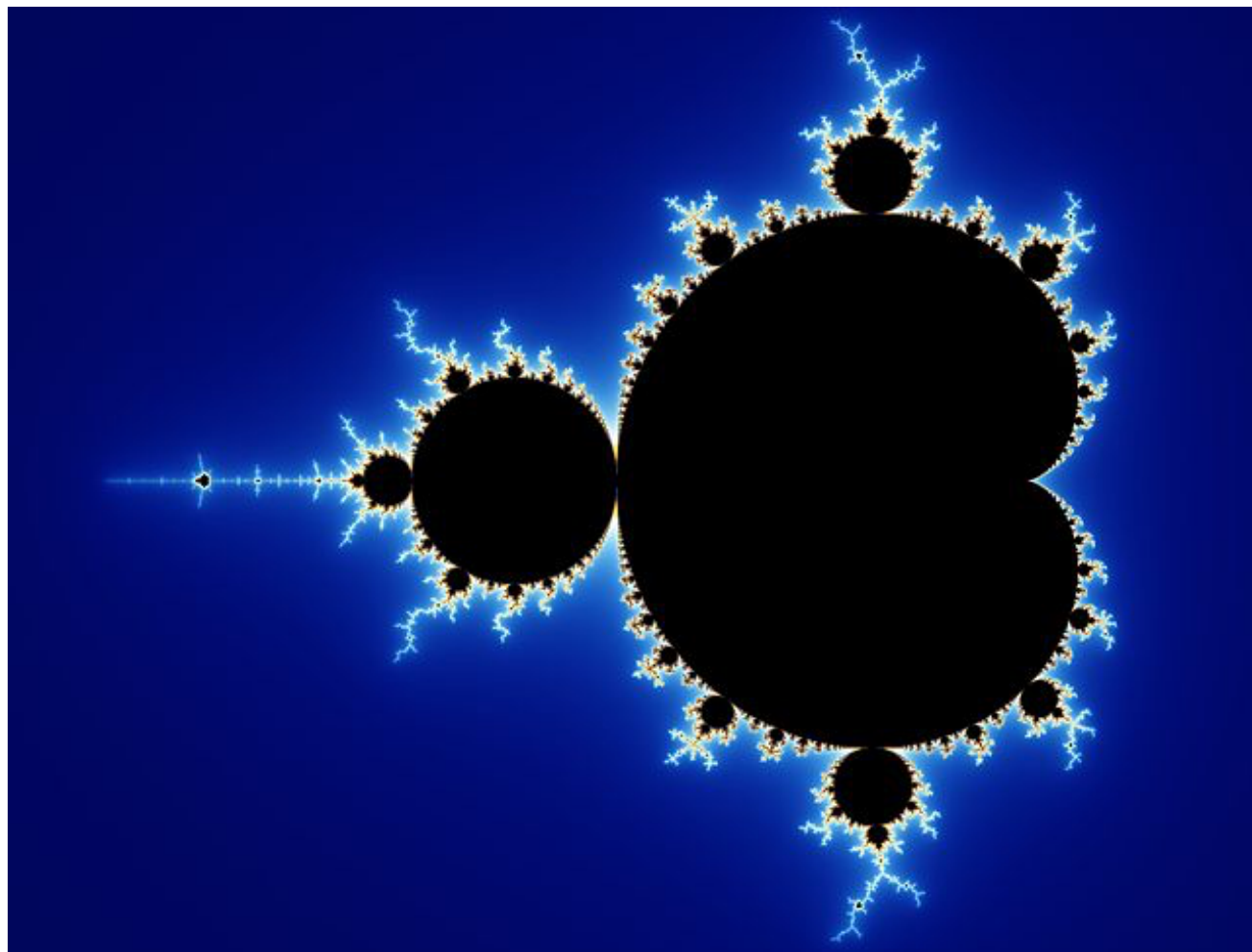
- Cake
 - Chocolate
 - Double Chocolate

More About Me

I like...

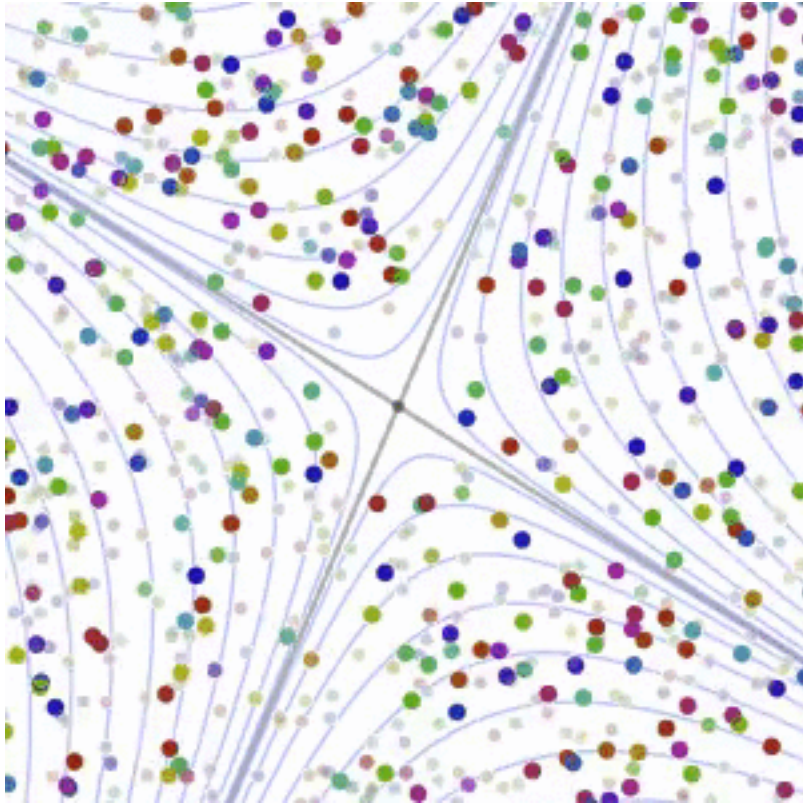
- Cake
 - Chocolate
 - Double Chocolate
 - Death by Chocolate

Even More About Me



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.

Web sites

Web Sites

- **Math 1553 Master Course Web Site**
 - Run by course coordinator
 - Contains: common syllabus, practice exams, worksheets, advice, etc.
- **Math 1553 D Course Web Site**
 - Run by me
 - Contains: office hours, TAs, studio, slides, quiz solutions...
- **Canvas**
 - Contains: Grades
 - Links to WebWork (homework) & Piazza (discussion)
 - Front page has links to everything else mentioned above

Math 1553 D Course Web Site

The image shows a browser window displaying the course website for Math 1553 D. The browser's address bar shows the URL "people.math.gatech.edu". The page content includes the course title "Math 1553 Introduction to Linear Algebra" and the semester "Spring 2020 — Sections D1 - D4". The Georgia Tech logo is in the top right. The page features several green buttons for navigation: "Master Course Website", "Syllabus", "Interactive Linear Algebra", "Math 1553 Slide Deck", "Canvas", "Piazza", and "MyMathLab". Each button is preceded by a short instruction.

Math 1553
Introduction to Linear Algebra
Spring 2020 — Sections D1 - D4

Georgia Tech

For most course information, including the course calendar, see the Math 1553 Master Site:

Master Course Website

This is the master syllabus:

Syllabus

The textbook:

Interactive Linear Algebra

A complete set of slides (not the slides I use in class):

Math 1553 Slide Deck

For WeBWork, Piazza, Grades, etc. see Canvas:

Canvas

For online discussions and polls you can go directly to Piazza:

Piazza

For on-line access to the supplementary textbook see MyMathLab (course id: jankowski45035):

MyMathLab

Math 1553 D Course Web Site

Not Secure — people.math.gatech.edu

Instructor

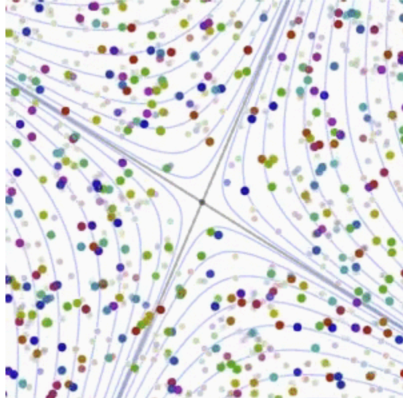
Professor [Dan Margalit](#)
Lecture time MW 9:05-9:55
Lecture location [Gilbert Hillhouse Boggs Building B5](#)
Office [Skiles 234](#)
Email margalit@math.gatech.edu
Office hours Mon 3-4, Wed 2-3, and by appointment

Teaching Assistants

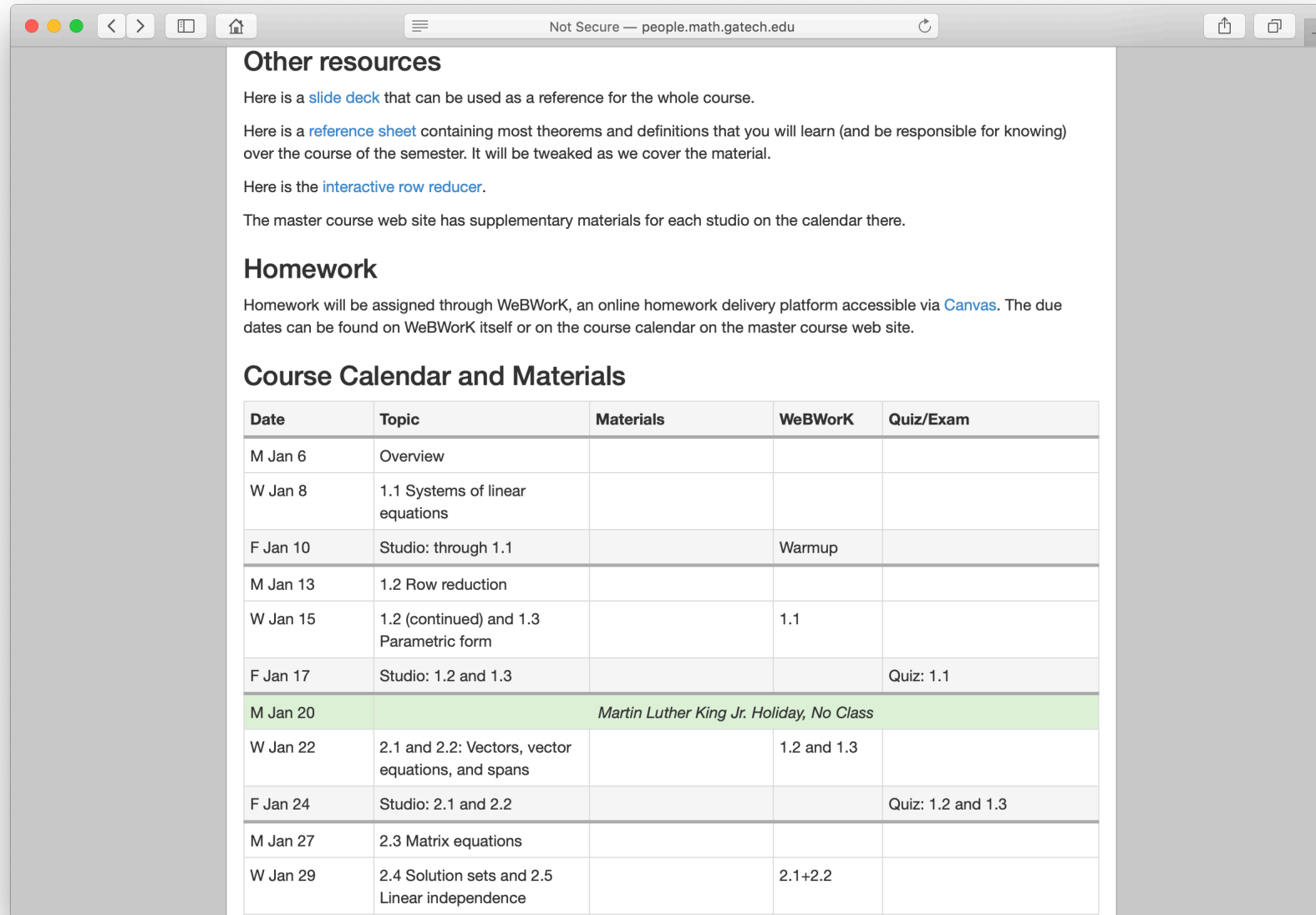
Studio time F 9:05 - 9:55
Studios
D1: Skiles 269, Isabella Bowland
D2: Skiles 170, Kyle Jiang
D3: Clough 246, Kalen Patton
D4: Skiles 156, Sidhanth Raman
TA Office Hours
Isabella Bowland, tba
Kyle Jiang, tba
Kalen Patton, tba
Sidhanth Raman, tba

Textbook

The textbook for the course is *Interactive Linear Algebra*, by Dan Margalit and Joe Rabinoff. Click on the icon below.



Math 1553 D Course Web Site



Other resources

Here is a [slide deck](#) that can be used as a reference for the whole course.

Here is a [reference sheet](#) containing most theorems and definitions that you will learn (and be responsible for knowing) over the course of the semester. It will be tweaked as we cover the material.

Here is the [interactive row reducer](#).

The master course web site has supplementary materials for each studio on the calendar there.

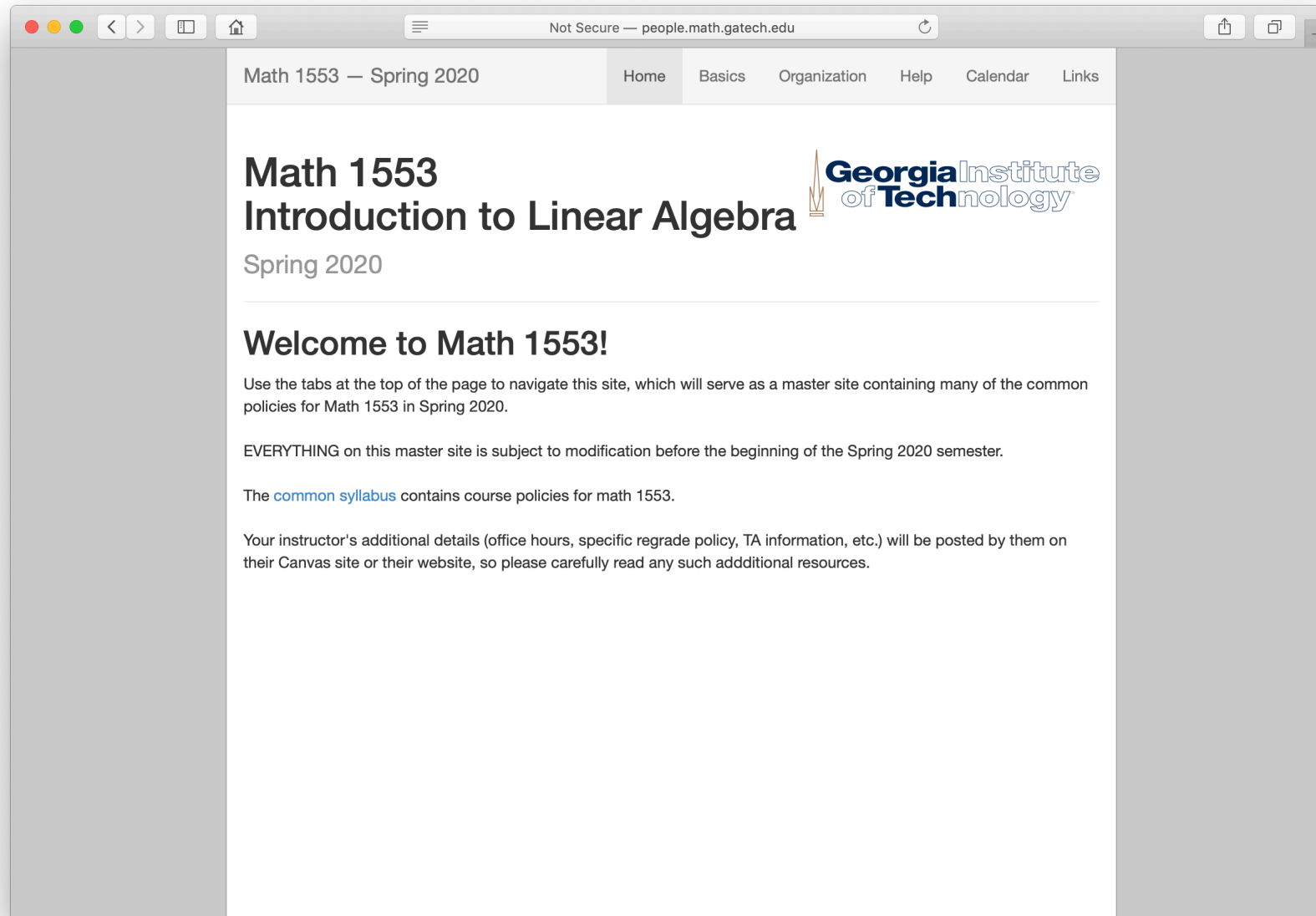
Homework

Homework will be assigned through WeBWorK, an online homework delivery platform accessible via [Canvas](#). The due dates can be found on WeBWorK itself or on the course calendar on the master course web site.

Course Calendar and Materials

Date	Topic	Materials	WeBWorK	Quiz/Exam
M Jan 6	Overview			
W Jan 8	1.1 Systems of linear equations			
F Jan 10	Studio: through 1.1		Warmup	
M Jan 13	1.2 Row reduction			
W Jan 15	1.2 (continued) and 1.3 Parametric form		1.1	
F Jan 17	Studio: 1.2 and 1.3			Quiz: 1.1
M Jan 20	<i>Martin Luther King Jr. Holiday, No Class</i>			
W Jan 22	2.1 and 2.2: Vectors, vector equations, and spans		1.2 and 1.3	
F Jan 24	Studio: 2.1 and 2.2			Quiz: 1.2 and 1.3
M Jan 27	2.3 Matrix equations			
W Jan 29	2.4 Solution sets and 2.5 Linear independence		2.1+2.2	

Math 1553 Master Web Site



The image shows a browser window displaying the Math 1553 Master Web Site. The browser's address bar shows "Not Secure — people.math.gatech.edu". The page has a navigation menu with links for "Home", "Basics", "Organization", "Help", "Calendar", and "Links". The main content area features the course title "Math 1553 Introduction to Linear Algebra" and the Georgia Institute of Technology logo. Below the title, it says "Spring 2020". A "Welcome to Math 1553!" section follows, providing instructions on how to use the site's navigation tabs and mentioning that the common syllabus contains course policies.

Math 1553 — Spring 2020

Home Basics Organization Help Calendar Links

Math 1553 Introduction to Linear Algebra

Georgia Institute of Technology

Spring 2020

Welcome to Math 1553!

Use the tabs at the top of the page to navigate this site, which will serve as a master site containing many of the common policies for Math 1553 in Spring 2020.

EVERYTHING on this master site is subject to modification before the beginning of the Spring 2020 semester.

The [common syllabus](#) contains course policies for math 1553.

Your instructor's additional details (office hours, specific regrade policy, TA information, etc.) will be posted by them on their Canvas site or their website, so please carefully read any such additional resources.

Canvas

gatech.instructure.com

MATH-1553-D

Spring 2020

Intro to Linear Algebra - MATH-1553-D

The web site for Math 1553 Section D is [here](#).

View Course Stream

View Course Calendar

To Do

Nothing for now

Account

Dashboard

Courses

Calendar

Inbox

Help

Home

Assignments

Grades

People

Piazza

CIOS

6d You are currently logged into Student View

Resetting the test student will clear all history for this student, allowing you to view the course as a brand new student.

Reset Student

Leave Student View

Piazza

The screenshot shows the Piazza web application interface. At the top, the browser address bar displays 'piazza.com'. The navigation bar includes the Piazza logo, the course identifier 'MATH-1553-D', and tabs for 'Q & A', 'Resources', 'Statistics', and 'Manage Class'. The user profile 'Dan Margalit' is visible in the top right corner.

The main content area is divided into two columns. The left column is a sidebar with a 'New Post' button and a search bar. Below this, there are sections for 'PINNED' and 'TODAY' posts. The 'TODAY' section lists several posts, including a poll and several introductory posts. The right column displays a detailed view of a post titled 'Welcome to Piazza!'. This post contains a list of seven tips for using Piazza, such as 'Ask questions!', 'Edit questions and answers wiki-style', and 'Go anonymous'. At the bottom of the post view, there are statistics for 'Average Response Time' (N/A) and 'Special Mentions' (None), along with 'Online Now' (1) and 'This Week' (1) counts.

Navigation: piazza.com

Course: MATH-1553-D

User: Dan Margalit

Post Title: note

Views: 1 views

Welcome to Piazza!

Piazza is a Q&A platform designed to get you great answers from classmates and instructors fast. We've put together this list of tips you might find handy as you get started:

- 1. Ask questions!**

The best way to get answers is to ask questions! Ask questions on Piazza rather than emailing your teaching staff so everyone can benefit from the response (and so you can get answers from classmates who are up as late as you are).
- 2. Edit questions and answers wiki-style.**

Think of Piazza as a Q&A wiki for your class. Every question has just a single **students' answer** that students can edit collectively (and a single **instructors' answer** for instructors).
- 3. Add a followup to comment or ask further questions.**

To comment on or ask further questions about a post, start a **followup discussion**. Mark it resolved when the issue has been addressed, and add any relevant information back into the Q&A above.
- 4. Go anonymous.**

Shy? No problem. You can always opt to post or edit anonymously.
- 5. Tag your posts.**

It's far more convenient to find all posts about your Homework 3 or Midterm 1 when the posts are tagged. Type a "# " before a key word to tag. Click a blue tag in a post or the question feed to filter for all posts that share that tag.
- 6. Format code and equations.**

Adding a code snippet? Click the **pre** or **tt** button in the question editor to add pre-formatted or inline teletype text. Mathematical equation? Click the **Fx** button to access the LaTeX editor to build a nicely formatted equation.
- 7. View and download class details and resources.**

Statistics: Average Response Time: N/A | Special Mentions: There are no special mentions at this time. | Online Now: 1 | This Week: 1

Copyright © 2020 Piazza Technologies, Inc. All Rights Reserved. [Privacy Policy](#) [Copyright Policy](#) [Terms of Use](#) [Blog](#) [Report Bug!](#)

WeBWork

The screenshot shows a web browser window with the URL `webwork.math.gatech.edu`. The page title is "WeBWork MATH-1553_SPRING2020". The header includes the WeBWork logo, the MAA logo (Mathematical Association of America), and a "Logged in as 902781425. Log Out" button. A left sidebar contains a "MAIN MENU" with options: Courses, Homework Sets (selected), User Settings, Grades, Instructor Tools (Classlist Editor, Hmwk Sets Editor, Library Browser, Statistics, Student Progress, Scoring Tools, Email, File Manager, Course Configuration, Help), and Report bugs. The main content area shows the course title "MATH-1553_SPRING2020" and a "Homework Sets" table. A "Course Info Edit" button is visible on the right. The table lists the following 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

Under Assignments
In Canvas.
It will work on your
second attempt.

Your first assignment

Mathematical Autobiography

The first assignment is to post a mathematical autobiography on Piazza, due Fri.

The folder is `bio` and the subject is your name.

Include:

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

Assessment

Grades!

Grades

Category	Percentage
Polls	5%
Homework	5%
Quizzes	15%
Midterms	45%
Final Exam	30%

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

If you score higher on the Final than your lowest Midterm then the Final is worth 37.5%...

Exams

Exam	Date
Midterm 1	Feb 7
Midterm 2	Mar 6
Midterm 3	Apr 10
Final Exam	Apr 28 @ 6pm

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

Quizzes

- There are 7 quizzes, on Fridays.
- Lowest quiz grade dropped
- 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 Wed at 11:59 pm
- Normally as many tries as you want, but there are a handful of problems with a limited number of tries. The problem will say.
- One you get told your answer is correct, you are done with that problem.
- Two lowest scores dropped

Polls

- Piazza polls during class
- Lowest three dropped
- Graded only for participation
- To get credit you must sign in to Piazza with your Gtid
- To get credit you must press “Save my response”
- Answering a poll from any place other than the lecture hall is considered a breach of the academic honor code.

Advice, etc.

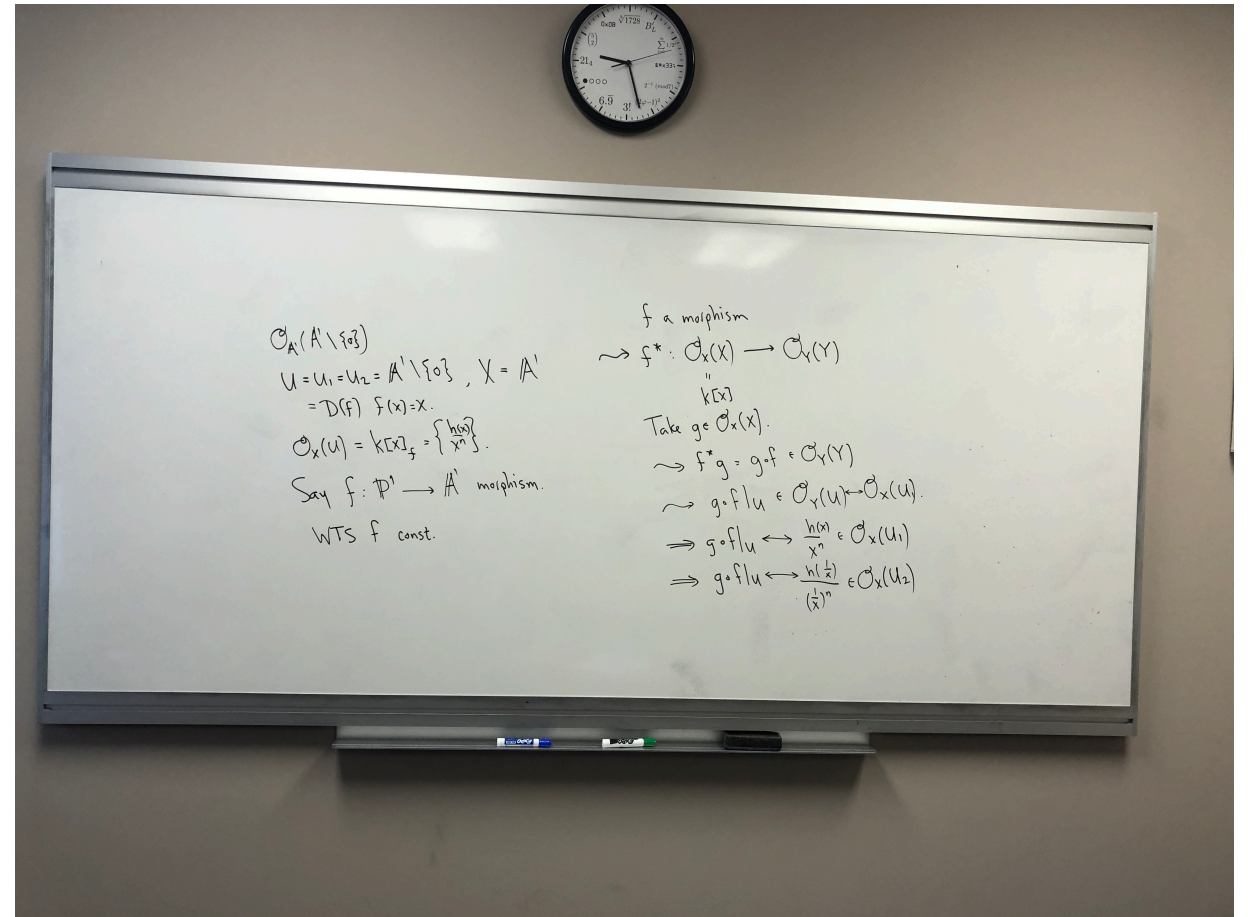
Soak Zone!

The first 5 rows of the lecture hall are in our Soak Zone. If you are sitting in the Soak Zone, prepare to get completely soaked by linear algebra knowledge.



Office Hours

- Skiles 234
- Mon 3-4, Wed 2-3
- You should come!
- Ok if you don't have questions



Laptop Free Zone

Laptops are not permitted in lecture, unless authorized by me.



Some Things that Make Me Happy

- Advance notice if you need to come late / leave early
- Not using your phone in class
- Energy
- Email / online etiquette
- Saying hi if I see you out and about
- When you ask/answer a question

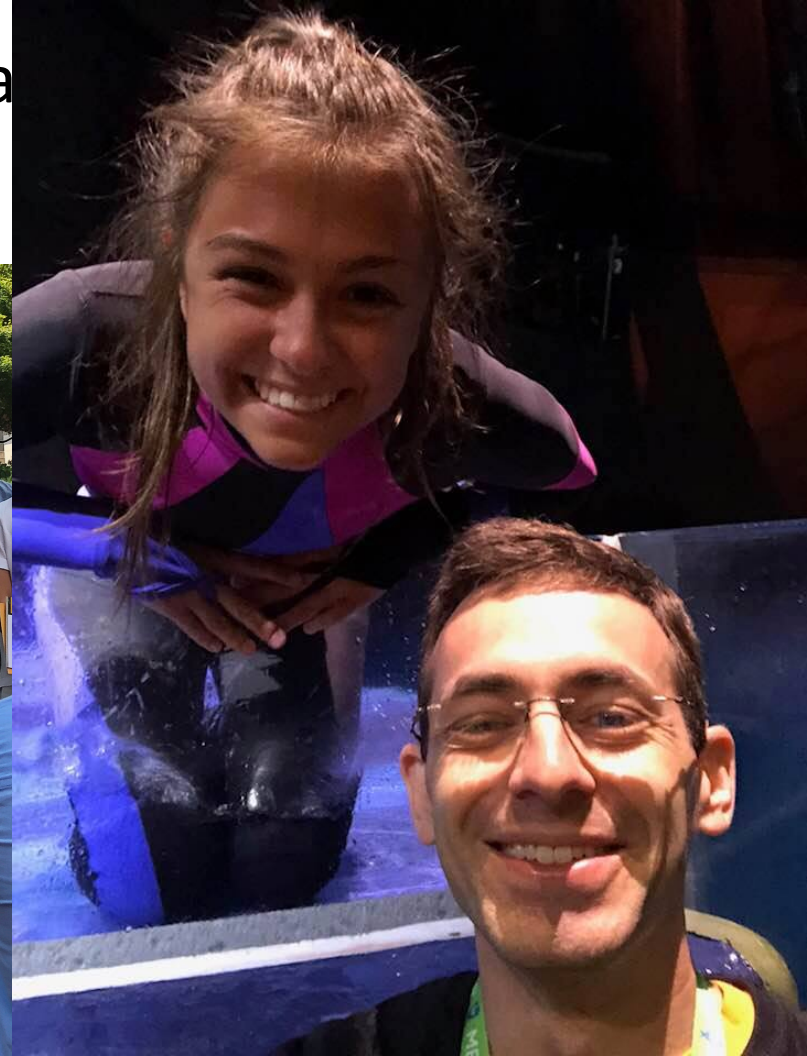
Some Things that Make Me Happy

- Advance notice if you need to come late / leave early
- Not using your phone in class
- Energy
- Email / online etiquette
- Saying hi if I see you out and about
- When you ask/answer a question



Some Things that Make Me Happy

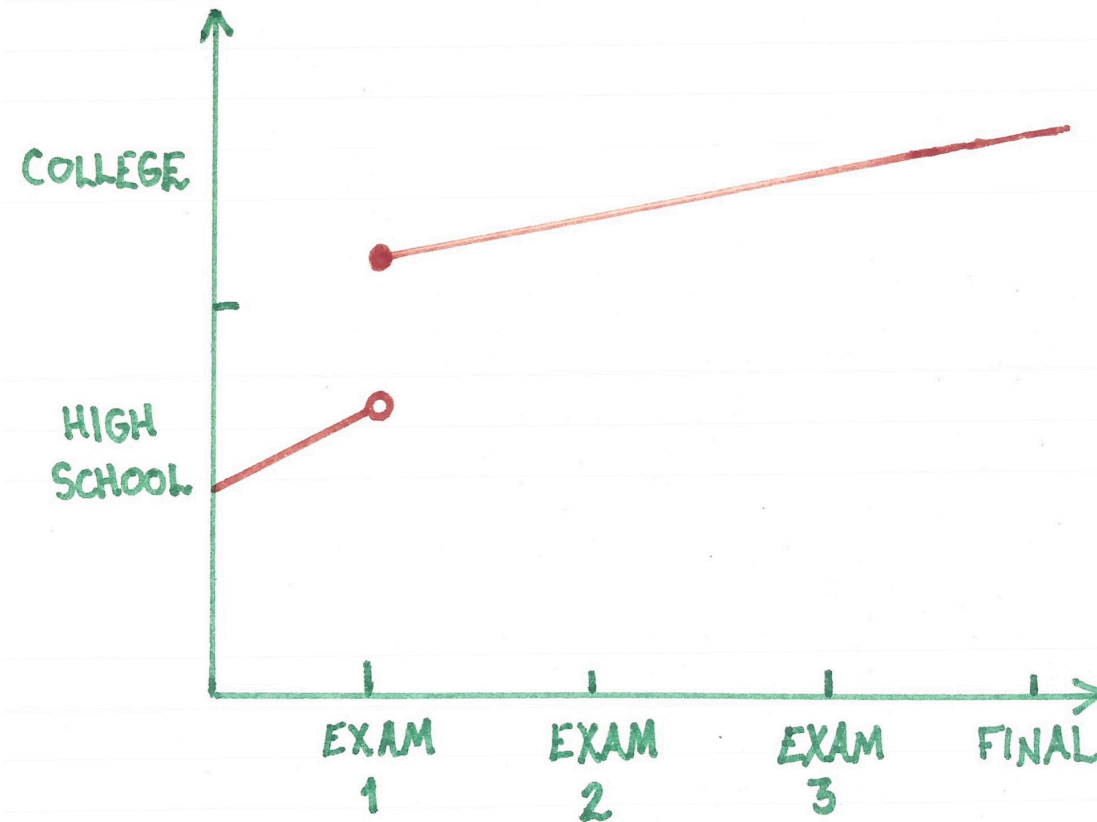
- Advance notice if you need to come late / leave early
- Not using your phone in class
- Energy
- Email / online etiquette
- Saying hi if I see you out and about
- When you ask/answer a question



Asking questions

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

Difficulty of the Course



After the first exam, definitions will become fundamentally important!

Good luck!

