

Welcome to CSE 121!

Matt Wang/Brett Wortzman

Autumn 2024

Use this QR code as one way to ask questions!



[sli.do #cse121](https://sli.do/#cse121)

TAs:

Abby	Afifah	Ailsa	Alice	Aliyan	Arohan
Chloë	Christopher	Dalton	Derek	Elizabeth	Ethan
Hanna	Hannah	Heather	Hibbah	Janvi	Jasmine
Judy	Julia	Kelsey	Lucas	Luke	Mahima
Maitreyi	Maria	Merav	Minh	Neha	Ronald
Ruslana	Sahej	Sam	Samrutha	Sushma	Vivian
Yijia	Zachary				

Agenda (1/7)

- About us
- About this course
 - Learning objectives
 - Other similar courses
 - Course components
- Our learning model

- Tools and resources
 - Course Website
 - Ed

On Friday

- Assessment and grading
- Collaboration

Agenda (2/7)

- **About us** ←
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Hi, I'm Matt! (he/him)

- (new) Assistant Teaching Professor in the Allen School
- grew up mostly in Toronto and sometimes Tokyo!
- went to UCLA!
 - BS & MS in Computer Science
 - BS in Math-Economics
- computer science interests: CS education, “open-source”, programming languages, accessibility
- non-CS interests: reading, music (Laufey was my #1 this wrapped), video games, skiing & ice skating!

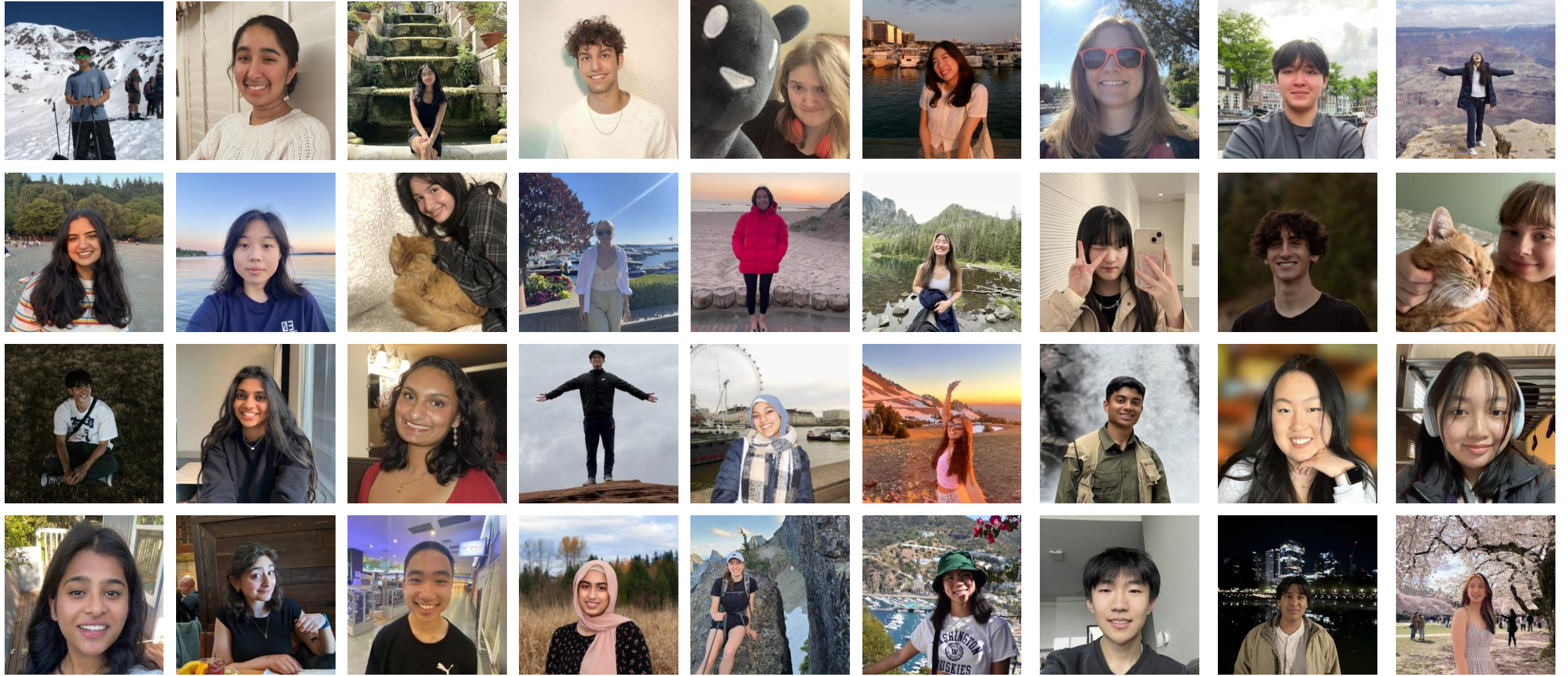


Hi, I'm Brett! (he/him)

- Associate Teaching Professor
- Frequent intro CS instructor
 - Lead designer/developer of new 12X curriculum
- Also interested in CS education/pedagogy
- Previously:
 - trained CS teachers (and still!)
 - developed CS curriculum
 - taught high school CS
 - worked as a software engineer
- Non-CS hobbies: board games/RPGs, officiating football, announcing robotics competitions



Meet your 38 TAs!



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Learning Objectives

or, “What will I learn in this class?”

- 1. Computational Thinking**
- 2. Code Comprehension**
- 3. Code Writing**
- 4. Communication**
- 5. Testing**
- 6. Debugging**
- 7. Ethics & Societal Impact**

Other Similar Courses

Course	Good choice if...
CSE 121	<ul style="list-style-type: none">• You've never programmed before AND• You are, or want to be, in a major such as CS, CE, ECE, Info, etc. that requires Java programming
CSE 122	<ul style="list-style-type: none">• You've done some programming (roughly one course worth) in any programming language AND• You are, or want to be, in a major such as CS, CE, ECE, Info, etc. that requires Java programming
CSE 123	<ul style="list-style-type: none">• You've taken CSE 122 AND• You are, or want to be, in a major such as CS, CE, ECE, Info, etc. that requires Java programming
CSE 143X	<ul style="list-style-type: none">• You have programmed before, but <i>not</i> in Java OR• You have lots of extra time to put into learning and tend to pick things up quickly
CSE 160	<ul style="list-style-type: none">• You've never programmed before AND• You're interested in data science and analysis OR• You'd rather learn Python than Java* OR• You are, or want to be, in a major such as Physics, Bio, Stat, etc. where analyzing data through programming is useful

See [Guided Self-Placement](#) and [Introductory Courses](#) for more info

Course Components

Meetings

LECTURES

(x20)

- We're here!
- Introduce concepts, practice ideas, discuss applications.
- Pre-class materials to prepare for class each day. Due **before** class.

SECTIONS

(x16)

- Held in person
- More practice, review, applications
- TA advice, how to be an effective student
- Preparation for quizzes / exams
- Post-section work done at section or on your own. Due **day of section**.

Assessments

PROGRAMMING ASSIGNMENTS

(x4)

- Structured assignments
- Programming in Java
- Applying & implementing course concepts

CREATIVE PROJECTS

(x4)

- More open-ended assignments
- Explore new ideas and applications

QUIZZES

(x3)

- Taken in quiz section
- 45 minutes on computer

EXAM

(x1)

- Culminating exam
- **Wed, Dec 11th**
- **12:30-2:20pm**

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Digression: My Pandemic Hobby

Amigurumi: Japanese art of creating crocheted or knitted stuffed toys



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How Learning Works

Learning requires **active participation** in the process.

It's not as simple as sitting and listening to someone talk at you!

- Requires **deliberate practice** in **learning by doing**
- Benefits from **collaborative learning**
- Does not work well if you cram everything!



Pre-Class Materials (1/3)

Core element of course: **pre-class material**

- prepare for each lecture with readings & practice problems
- should take ~30 minutes per lecture (why we don't have Monday lectures!)
- class will start with a brief recap, then pick off where we left off

Pre-Class Materials (2/3)

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Which means...

- we can spend lecture diving deeper, answering questions, and think-pair-share
- you can ask about pre-lecture material in class or quiz section!

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Pre-class materials are ungraded, which means...

- it's okay if you find them challenging – that means you're learning!
- but, you should do them, and we will assume you've done them

Consistent and Active Participation (1/2)

Attendance is not graded. But, it's strongly encouraged!

- lectures & sections are not going to be just us talking at you!
- ex: live in-class coding, debugging, think-pair-share, and problem-solving
- spreading out ~ 1-2 hours each day over Tuesday – Friday is much more effective than cramming before the assignment is due!

Consistent and Active Participation (2/2)

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- lectures & sections are not going to be just us talking at you!
- ex: live in-class coding, debugging, think-pair-share, and problem-solving
- spreading out ~ 1-2 hours each day over Tuesday – Friday is much more effective than cramming before the assignment is due!

Catching up:

- all lectures are recorded on Panopto; slides are on our website.
- section materials are on Ed, but section will not be recorded.

Metacognition

- **Metacognition**: asking questions about your solution process.
- Examples:
 - **While debugging**: explain to yourself why you're trying this change.
 - **Before running your program**: make an explicit prediction of what you expect.
 - **When working**: be aware when you're not making progress, so you can take a break or try a different strategy.
 - **When designing**:
 - Explain the tradeoffs with using a different data structure or algorithm.
 - If one or more requirements change, how would the solution change as a result?
 - Reflect on how you ruled out alternative ideas along the way to a solution.
 - **When studying**: what is the relationship of this topic to other ideas in the course?

Course Culture and Support

- Currently 687 students enrolled!
 - *Very few* are CSE majors!
 - Wide range of backgrounds, interests, and goals
 - **Everyone** is new to programming
- Support and help each other!
 - Form study groups
 - If you have a question, others almost certainly do too

Course Culture and Support: Live Support

Introductory Programming Lab (TA Office Hours – starting Week 2)

- #1 place to get help (and highly rated in the class!)
- face-to-face help from TAs on **any** course questions – not just assignments

TA Section

- Work through practice problems (this is how you learn!)
- Get to know your TAs & peers!

Instructor Office Hours (in-person & Zoom – schedule on website)

- We don't bite (most of the time)
- Great for things from lecture, personal questions, or just to say hi!

Course Culture and Support: Ed & Email

Ed Board

- Best for content and logistics questions – 687 of you >> 40 of us!!
- Feel free to make them public or private (and/or anonymous)
- Answer other students' questions – great way to learn!

Email

- Best for personal circumstances and/or private questions
- If unsure, always feel free to email Matt & Brett (at cse121-instructors@cs.washington.edu)
- May politely ask you to post on Ed instead!

The World Around CSE 121 & Reaching Out

Our goal is to give you a great CSE 121 experience!

But CSE 121 does not exist in a vacuum – there's a lot going on in the world right now that can impact your education.

We've designed course policies for maximum flexibility: resubmissions, dropping quiz/exam problems, asynchronous help & lecture recordings.

Please reach out ASAP if you're struggling or have circumstances that require extra support. We're happy to help – we just need to know!

Community Standards



Think Pair Share: Inclusive Environments

Our class will have many “think-pair-share” activities. We’ll do a light version of that today! Our question to you is:

“What was an experience you had that made you feel welcome or included in a learning environment?”

1. think on your own about this for ~ 30 seconds
2. then, talk to your neighbor about it (and introduce yourself)
3. finally, we’ll share out – taking a few answers from volunteers

Think Pair Share: Exclusive Environments

Similarly:

“What was an experience you had that made you feel unwelcome or excluded in a learning environment?”

1. think on your own about this for ~ 30 seconds
2. then, talk to your neighbor about it (and introduce yourself)
3. finally, we'll share out – taking a few answers from volunteers

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Course Website

cs.uw.edu/121

- Primary source of course information (not Canvas)
- Calendar will contain links to (almost) all resources

The screenshot shows the CSE 121 course website. On the left is a navigation sidebar with links for Home / Calendar, Syllabus, Assignments, Resubmissions, Exam, Course Staff, Office Hours, Resources, Course Tools, EdStem, Anonymous Feedback, and Acknowledgements. A yellow attention banner at the top right states: "Attention! This website is still under development. As the quarter progresses, more information will be added soon; all content is subject to change." The main content area features the course title "Introduction to Computer Programming I Autumn 2024", a welcome message, a link to "What is this class? What will I learn?", a syllabus link, a registration notice, and a "This Week (at a glance)" section listing activities for Wednesday (09/25), Thursday (09/26), and Friday (09/27).

CSE 121

Home / Calendar

Syllabus

Assignments

Resubmissions

Exam

Course Staff

Office Hours

Resources

Course Tools

EdStem

Anonymous Feedback

Acknowledgements

Attention! This website is still **under development**. As the quarter progresses, more information will be added soon; all content is subject to change.

Introduction to Computer Programming I Autumn 2024

Welcome to CSE 121: Introduction to Computer Programming I 🎉

► What is this class? What will I learn?

Syllabus If you want to learn more about the course and its policies, please check out our [course syllabus](#).

Registration Please **do not** email the course staff or instructors regarding registration for the course. The course staff do not have access to add codes. Please email ugrad-adviser@cs.washington.edu for assistance.

This Week (at a glance)

Wednesday (09/25)

- Lesson 0: Course Policies; Hello World!
A lecture @ 11:30 in KNE 130; B lecture at 2:30 in BAG 131

Thursday (09/26)

- Section 0: Welcome!

Friday (09/27)

Syllabus (website)

Please review the syllabus ASAP.

The screenshot shows the main content area of the syllabus website. At the top, there is a yellow 'Attention!' banner. Below it is the 'Course Information' section, which includes 'Course Staff' (Brett Wortzman, Matt Wang), 'Instructor Email' (cse121-instructors@cs.washington.edu), and 'Registration Questions' (CSE Advisers). A 'Who to contact?' section follows, providing instructions on how to ask questions for security and accuracy. A table of contents is visible on the right side of the page.

The screenshot shows the navigation menu for the course. The 'Syllabus' link is highlighted with a red box. The menu items are: Home / Calendar, Syllabus, Assignments, Resubmissions, Exam, Course Staff, Office Hours, Resources, Course Tools, EdStem, Anonymous Feedback, and Acknowledgements.

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Thursday (09/26)

- **Section 0: Welcome!**

Friday (09/27)

Ed

- Our online learning platform
- Lessons, sections, quizzes all here
- Intro and walkthrough in Section 0

ed CSE 121 - 24au – Ed Discussion

New Thread

Search

COURSES

- CSE 121 - 24au
- CSE 122 - 24au
- Course Redesign Clinic s...
- STAFF CSE 12x/14x C... 175
- STAFF CSE 121 - 24au
- 5 more

CATEGORIES

- Lectures
- Sections
- Pre-Class Material/Work
- Programming Assignm...
- Creative Projects
- Quizzes
- Resubmissions
- Final Exam
- Grading Clarification
- Social
- Announcements
- Class Megathreads
- General

88 others online

Welcome to CSE 121! 🍁 #1

Matt Wang **INSTRUCTOR**
2 hours ago in Announcements

UNPIN STAR WATCH VIEWS 140

Hi everyone!

20 Welcome to CSE 121!! My name is [Matt Wang](#), and I will be one of your co-instructors for CSE 121 this quarter (alongside the wonderful [Brett Wortzman](#)). We are both *super* excited to have you join us this quarter!

We hope you had a restful and relaxing summer break. You're receiving this email on our Ed Discussion board, which will be one of the main places for you to connect with your classmates and the course staff.

The rest of this post is a combination of different logistics items. Please read this carefully before our first class on Wednesday (tomorrow)!

Resources

In CSE 121, the course website will host all of the information about the course. You can find the course website at <https://courses.cs.washington.edu/courses/cse121/24au/> (short URL: <https://cs.uw.edu/121>). Some relevant pages include the [homepage/lecture calendar](#) and the [draft syllabus](#).

There's a lot there! As a result, we'll spend a part of the first day of the class talking about the website and how to use it effectively. The bottom line is that **the course website will be your main place to find new links to lessons, assignments, and other course resources.**

⚠️ Please be aware the website is still being updated and will be changing for a while! While most of the website is set, quite a few things are still in flux. So please bear with us as the CSE 121 team makes adjustments and updates to the site.

The only other place you will need to check regularly is the Ed Discussion board (right here!). Ed is where you can post questions about the course that your peers or the course staff can answer (as well as many other features). We will also post any announcements on the discussion board. If you'd like to learn more about Ed, check out [Ed's tutorial](#). Your TAs will

Other Course Tools (brief overview)

The logo for My Digital Hand, featuring the text "My Digital Hand" in white on a dark blue rectangular background with a thin white horizontal line below the text.

My Digital Hand

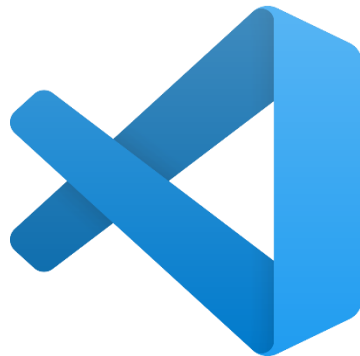
My Digital Hand

- Queueing in office hours



Canvas / Panopto

- Lecture recordings



Visual Studio Code

- Not strictly necessary!
- Develop offline
- Debugger Tool



Sli.do

- In-class activities (ungraded)
- No account needed

Help us improve!

CSE 121 is **still new!** We've worked hard to build a course that we think will be effective, supportive, and help you succeed.

But... we probably didn't get it all right!

- We appreciate your patience and understanding if we need to make adjustments during the quarter


Please give us lots of feedback!

- Post on Ed
- Mid and end-of-quarter feedback
- Use [CSE Anonymous Feedback Tool](#)

“Homework” for Next Time

First assignment will be released Friday, but there are some things to do in the meantime.

TODOs this week:

- [Fill out the introductory survey](#) (this is Thursday’s post-section work)
- Go meet your TA and classmates in Thursday’s quiz section
-  Complete the pre-class material for Friday (see calendar)
- [Check over syllabus details](#)