CS 225

Data Structures

January 22 – Introduction

G Carl Evans and Jing Jiang

Introduction

G Carl Evans – CS PhD

Academic Interests: parallel and compilers, systems programming, education, and magic fairy dust

Jing Jiang – ECE PhD

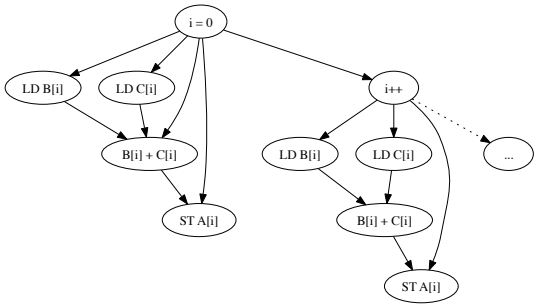
Academic Interests: Education, entrepreneurship, biosensor and system integration

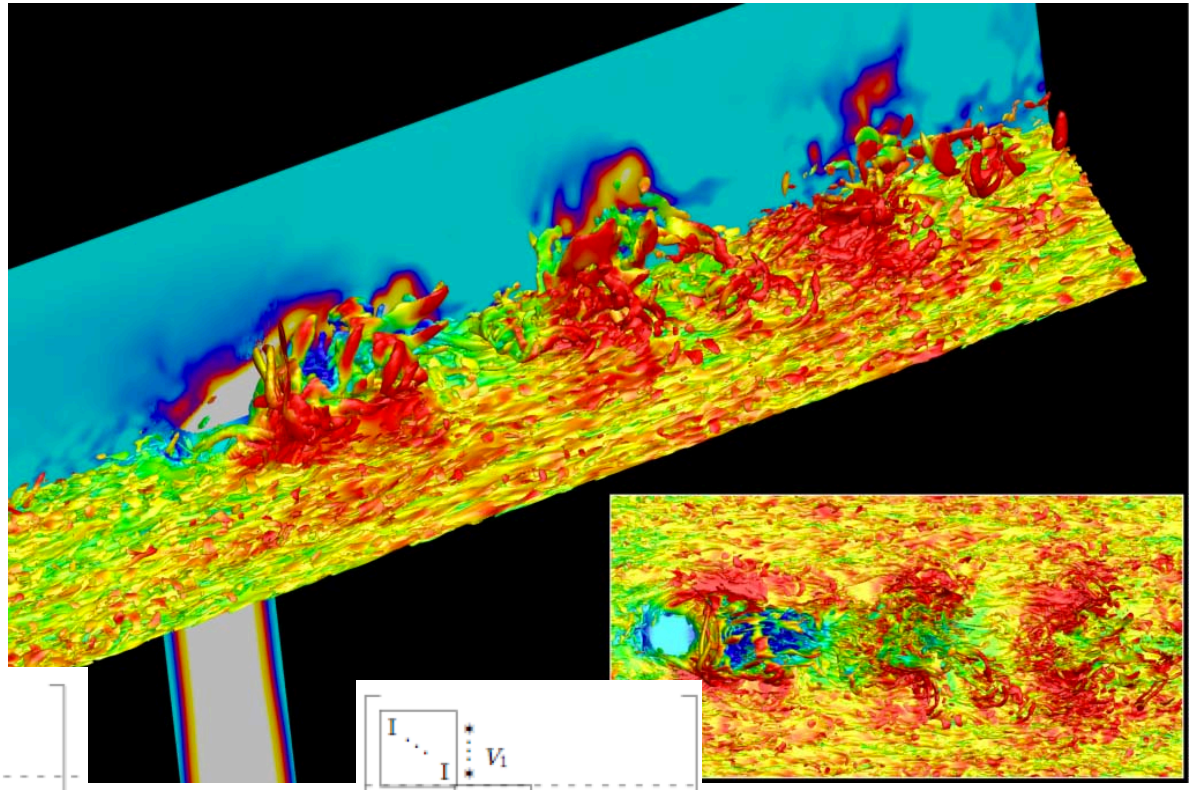
Thierry Ramais – Course Administrator – English PhD

Course Staff:

You:

G Carl Evans





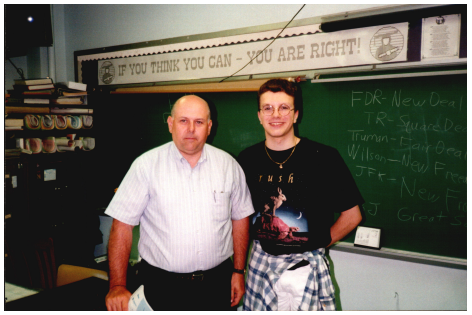
$$\mathbf{A} = \begin{bmatrix} A_1 & B_1 & & \\ C_2 & A_2 & B_2 & \\ & C_3 & A_3 & B_3 \\ & & C_4 & A_4 \end{bmatrix} \rightarrow \begin{bmatrix} I & & & V_1 \\ & I & & V_2 \\ & & I & V_3 \\ W_2 & W_3 & W_4 & I \end{bmatrix}$$

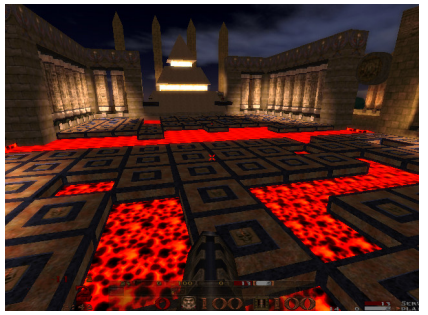
Jing Jiang

MoboSens
MoboSens
NOKIA
Sensing Targets
Glucose
cholesterol
NO3
Nitrate
As
Arsenic

KUKA
UFEFOUNDRY

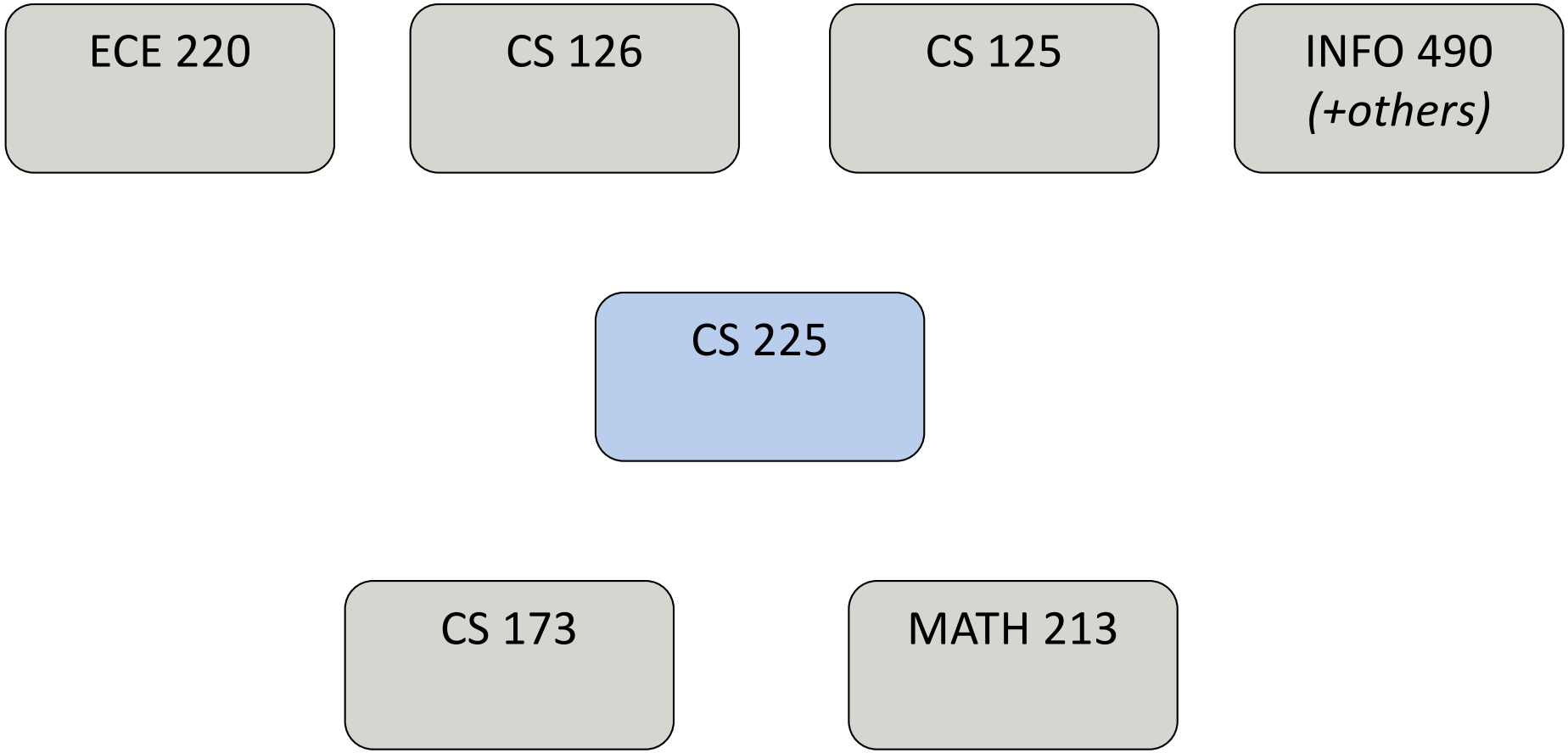
Thierry Ramais





Course Staff

You


ECE 220
CS 126
CS 125
INFO 490
(+others)
CS 225
CS 173
MATH 213

Everything about CS 225

https://courses.engr.illinois.edu/cs225/

Information on:

- Staff
- Communications
- Lab Sections
- MPs
- Quizes
- Grading
- Academic Integrity

What is this course about?

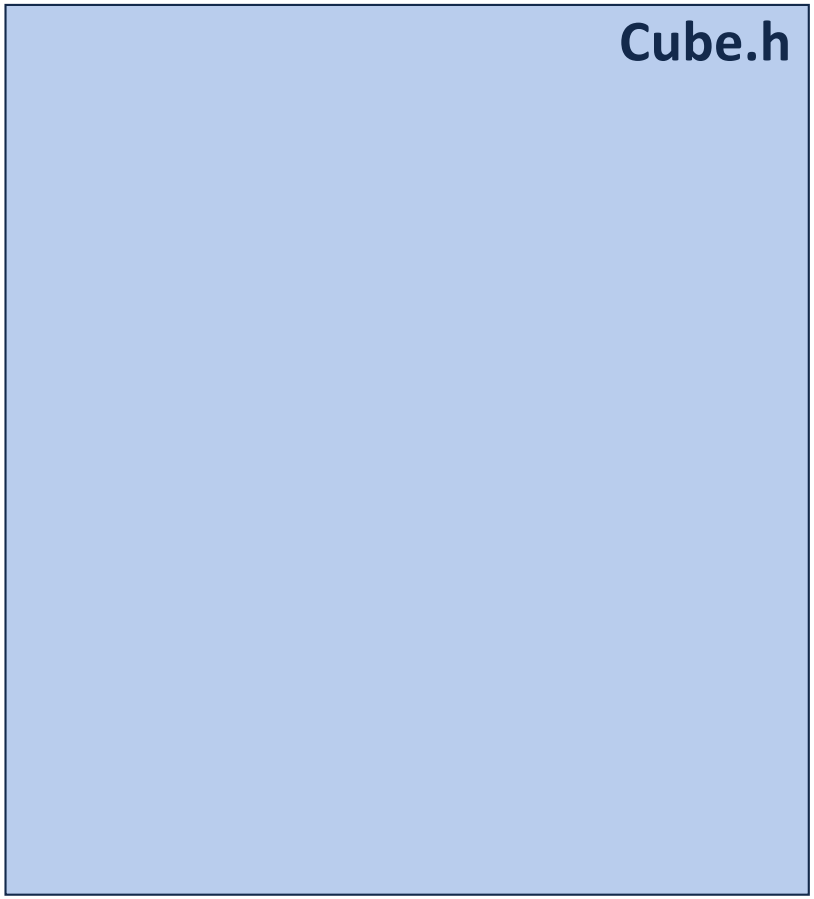
Variables in C++

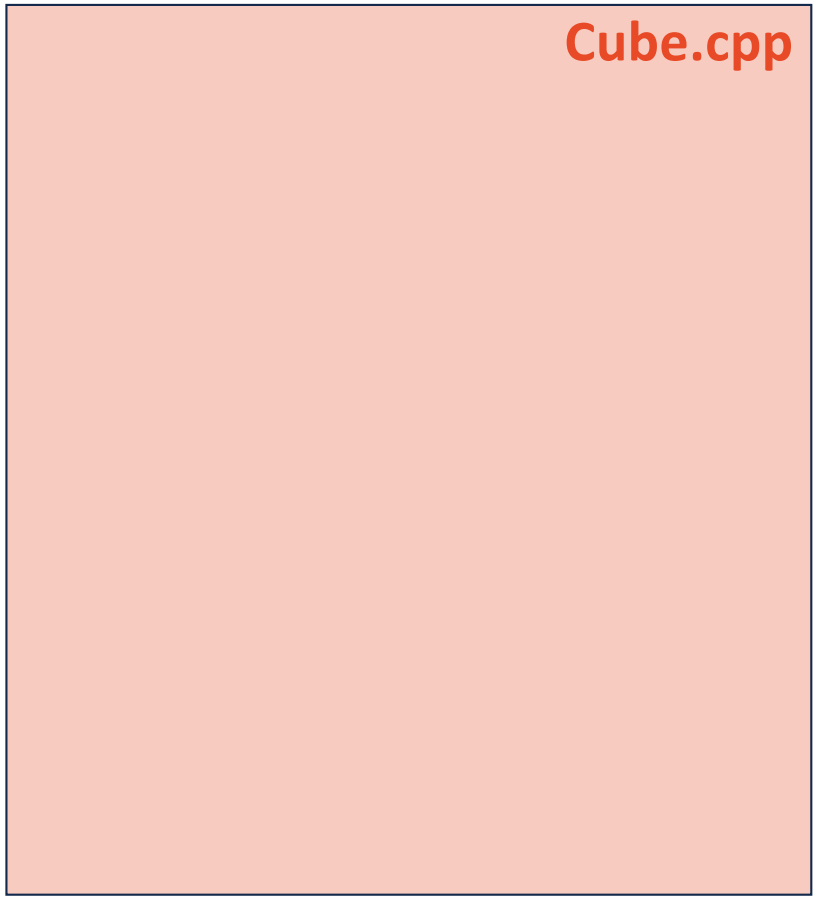
```
int myFavoriteInt;

char grade = 'A';

double gamma = 0.653;
```

```
Cat guinevere, baxter;

Cube rubix;

Person carl;
```

Encapsulation

Encapsulation





Cube.h

```
1  #pragma once
2
3  class Cube {
4    public:
5
6
7
8
9
10
11   private:
12
13
14 };
15
16
17
18
19
20
```

Cube.cpp

```
1  #include "Cube.h"
2
3  double Cube::getVolume() {
4
5
6  }
7
8
9
10
11
12
13
14
15
16
17
18
19
20
```

Cube.h

```
4  class Cube {
5    public:
6      double getVolume();
```