



PROJECT PLANNING, TECH, AND WORKFLOW

AUDIO VISUAL PROGRAMMING

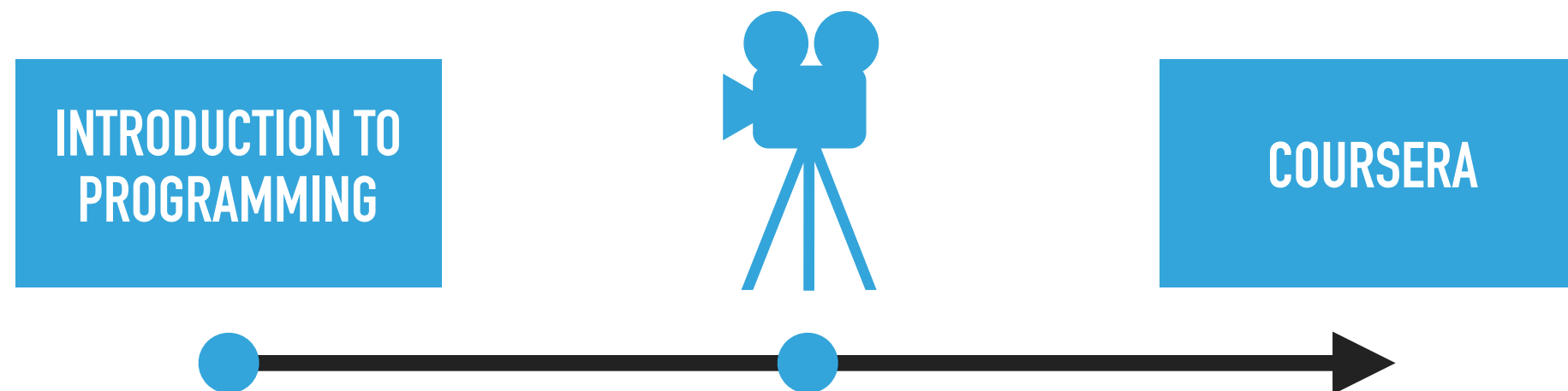
BACKGROUND



- ▶ 60% of my life playing football
- ▶ BSc in Games Programming, Goldsmiths University of London
- ▶ PlayBack Games startup company and laboratory assistant
- ▶ BSc online Programme with UoL, Goldsmiths, and Coursera
- ▶ PhD candidate in games and education

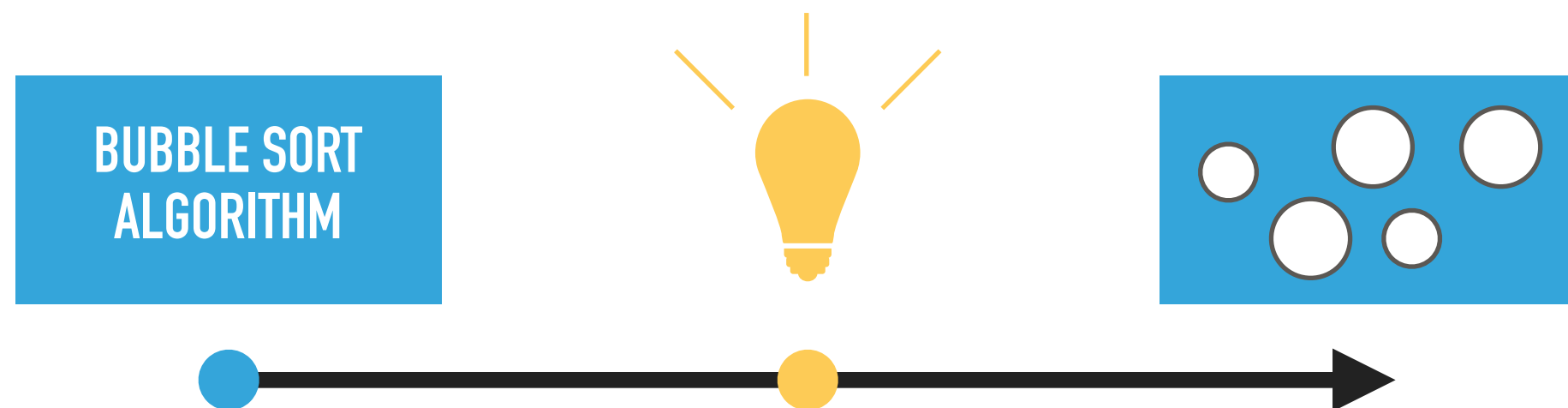
BSc ONLINE PROGRAMME WITH UoL AND COURSERA

- ▶ Design, develop, and deploy Computer Science modules online
- ▶ Transfer on-campus CS modules on Coursera
- ▶ Coursera is an e-learning platform which now offers BSc programmes



MY ROLE

- ▶ Described as creative programmer
- ▶ Inline with my PhD research on games and education
- ▶ Focused on the creation of interactive/dynamic learning activities



```
function bubble_Sort(a)
{
    var swapp;
    var n = a.length-1;
    var x=a;
    do {
        swapp = false;
        for (var i=0; i < n; i++)
        {
            if (x[i] < x[i+1])
            {
                var temp = x[i];
                x[i] = x[i+1];
                x[i+1] = temp;
                swapp = true;
            }
        }
        n--;
    } while (swapp);
    return x;
}
```

Help

✓ BUBBLE SORT

● INSERTION SORT

Strings

Bubble Sort Algorithm

2

75

10

14

36

25

Swap

Do Not Swap

Submit Solution

Start Again

You are sorting : [2] [75] [10] [14] [36] [25]

The sorted array is : [2] [10] [14] [25] [36] [75]

It should not take you longer than 5 passes to sort the array

Time Complexity: Best: $\theta(n)$ Average: $\theta(n^2)$ Worst: $\theta(n^2)$

NO SOLUTION PROVIDED YET

I GUESS YOU ARE STILL SORTING

DRY
SCARY
CHALLENGING



VISUAL
FUN
COMPELLING



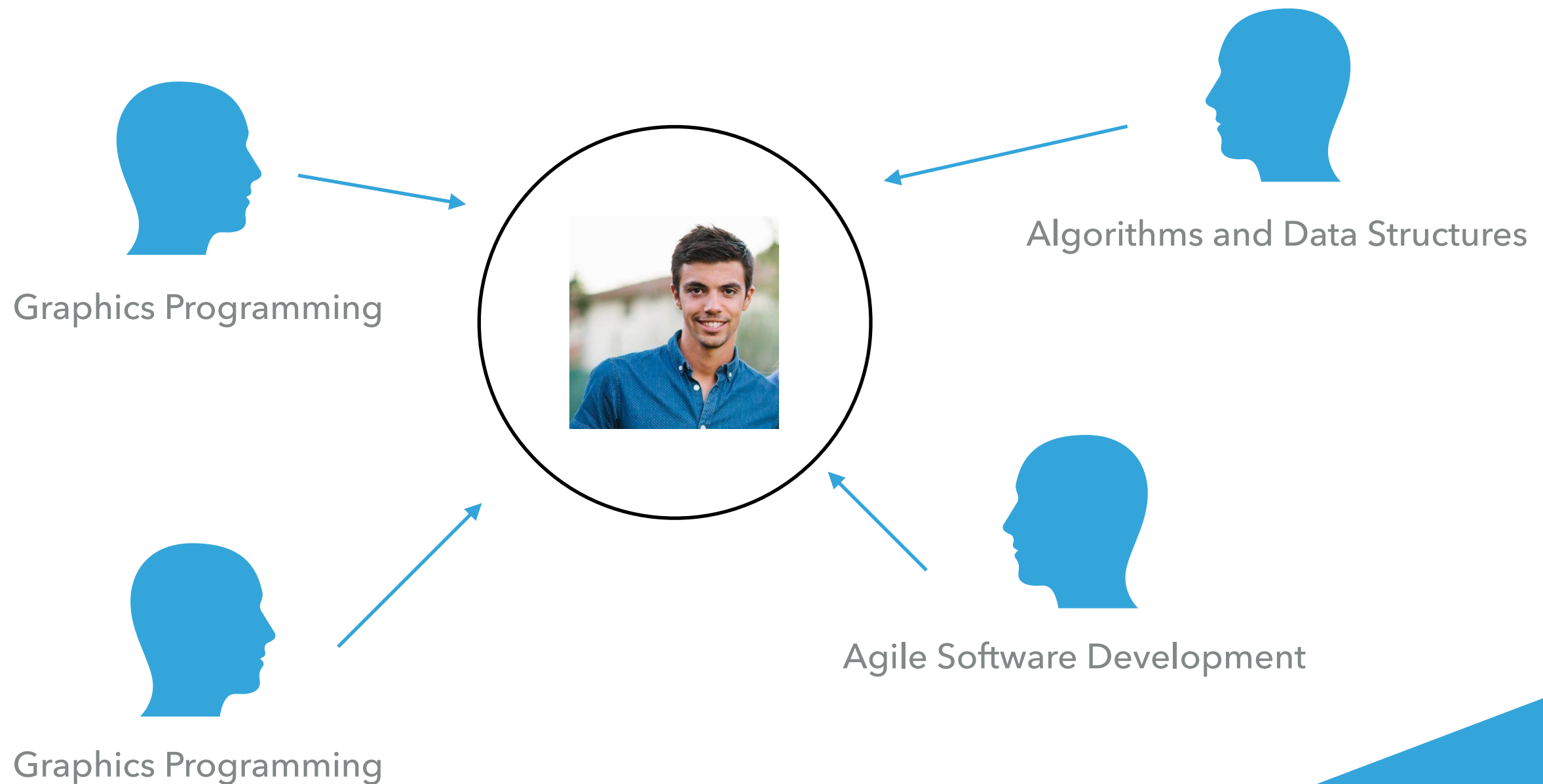
GoldPlugins

Gamifying Your Learnings


[HTTPS://WWW.DOC.GOLD.AC.UK/GOLDPLUGINS/](https://www.doc.gold.ac.uk/goldplugins/)

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CURRENTLY RESPONSIBLE FOR MULTIPLE MODULES



ORGANISATION, PLANNING, RIGHT TECH, TRACKING

- ▶ Notion and agile task board
 - ▶ Libraries vs vanilla development
 - ▶ GIT version control
- 
- A large blue triangle is located in the bottom right corner of the slide, pointing upwards and to the left.

ORGANISATION AND PLANNING

+ Add a view

To Do 2

Task1

To Do

Ⓐ Andrea Fiorucci

Introduction to Programming

Low

Feb 11, 2021

Task2

To Do

Ⓐ Andrea Fiorucci

Graphics Programming

Medium

Mar 4, 2021

Doing 1

Task3

Doing

Ⓐ Andrea Fiorucci

Python and Data Science

Low

Feb 20, 2021

+ New

Done 🏆 2

Task4

Done 🏆

Ⓐ Andrea Fiorucci

Introduction to Web Development

Medium

Dec 17, 2020

Task5

Done 🏆

Ⓐ Andrea Fiorucci

C++ and Games Development

Medium

Jan 1, 2021



[HTTPS://WWW.NOTION.SO/LOGIN](https://www.notion.so/login)

CHOOSING THE RIGHT TECH STACK

- ▶ Frameworks (Angular)
- ▶ Libraries (Three.js)
- ▶ Vanilla development (HTML, JAVASCRIPT, CSS)

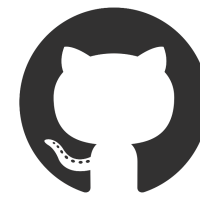
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TRACKING PROJECTS



[HTTPS://GIT-SCM.COM/](https://git-scm.com/)



[HTTPS://GITHUB.COM/](https://github.com/)

WORKFLOW

