PAIR PROGRAMMING WITH ONLINE **DISTANCE LEARNERS: LESSONS FROM TEACHING R AND PYTHON**

Dr Brittany Blankinship Winter School | 11 Jan 2024



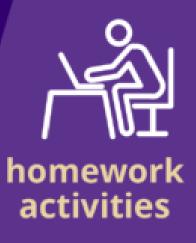
THE CONTEXT



FLIPPED

TRADITIONAL

Lecture



lecture



WHAT WORKED

and why... in some cases, why not

REFLECTIONS

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COMMUNICATION

WRITING TASKS

GROUP SIZE

SWITCHING ROLES

TUTOR SUPPORT

- Weekly announcement with necessary content for tutorials
- Release materials just ahead of tutorial, not before
- Break down into subtasks
- Reinforce good coding practice
- Use hints to prevent quitting
- Open-ended questions later on
- Share code as a task

- 2 very effective in person
- Online with parttime student across the world, 3 is better (1 driver, 2+ navigators)
- Difficult online when students are working locally
- Do not switch
- Switch as a task, but ensure task does not rely on previously created data objects (new file best)
- Crucial especially for online introductory courses
- Tutors play a key role in students' engaging
- Number of pairs/breakout rooms based on tutors

THANK YOU

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