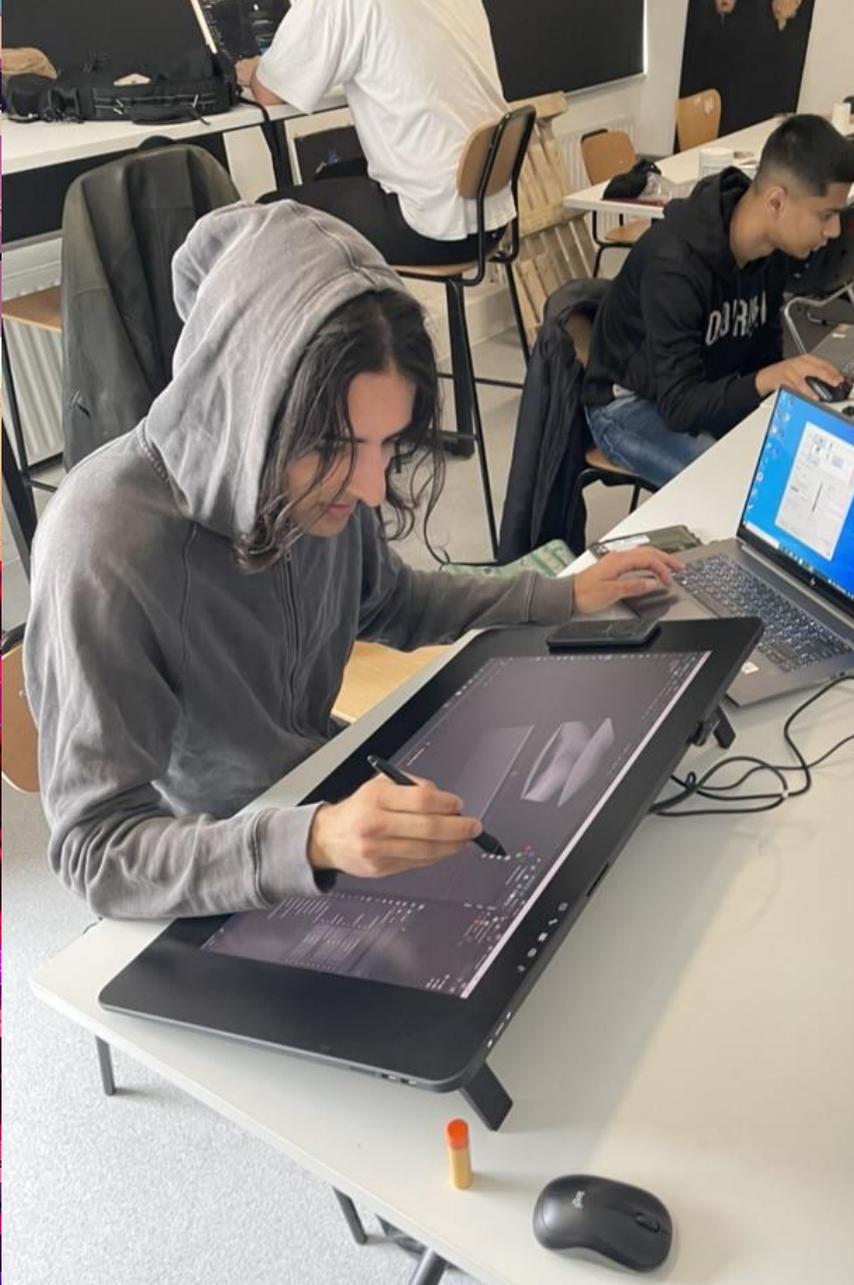


Vibe Coding in Computational Arts pedagogy: Addressing the accessibility, inclusivity, and learning implications of AI-assisted coding in Fine Art education

Dr Matthew Plummer-Fernandez | ARP Presentation | 2026

BA Fine Art: Computational Arts

1. An undergraduate course at Camberwell College UAL within the department of Fine Art
2. Opened in 2021, taking in cohorts of around 12-20 students.
3. Introduces new creative tools and technologies to Fine Art students.
4. Run by a small team of academic and technical staff, bringing a range of technical expertise and contextual knowledge.
5. As **Course Leader**, I develop curricula and advance inclusive practices



Workshops BAFACA students engaged in workshops ranging from game engines, to 3D modelling, to electronics.

Coding on Computational Arts and
the arrival of vibe coding

Code Blame 49 lines (38 loc) · 1.84 KB

```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>totallysafehaha</title>
7     <link rel="stylesheet" href="style.css">
8   </head>
9   <link rel="stylesheet" href="https://cdn.jsdelivr.net/gh/laemur/Fixedsys-Excelsior-LVX-Font/webfonts
10
11   <body>
12
13     <!--popup box will be*-->
14     <div class="popup">
15       <div class="popup-titlebar">
16         <span class="popup-title">User Information</span>
17         <button class="close-btn">X</button>
18       </div>
19
20       <div class="popup-content">
21         <form id="userForm">
22           <label for="name">Name:</label>
23           <input type="text" id="name" name="name" required>
24
25           <label for="age">Age:</label>
26           <input type="text" id="age" name="age" required>
27
28           <label for="nationality">Nationality:</label>
29           <input type="text" id="nationality" name="nationality" required>
30
31           <label for="phone">Phone:</label>
32           <input type="tel" id="phone" name="phone" required>
33
34
35         <div class="buttons">
36           <button id="okButton" type="submit">OK</button>
37
38           <!-- <a target="popup" onclick="window.open('/new window1/window2.html','new win
39           target="popup" onclick="window.open('/new window1/windowex.html','new window','wd
```

User Information [X]

Name:

Age:

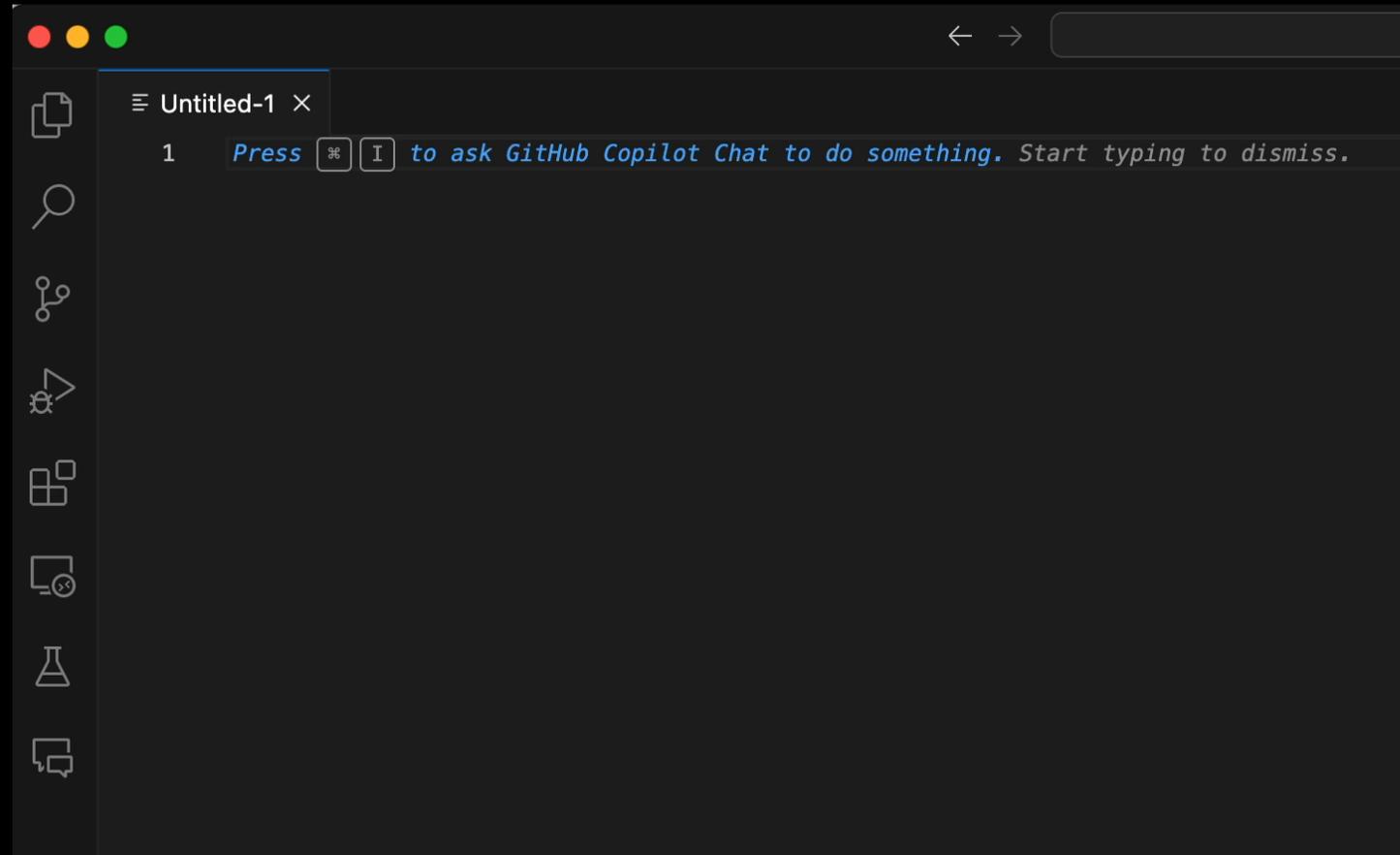
Nationality:

Phone:

OK Cancel

Vibe Coding

1. A new term describing AI-assisted coding
2. Built into code editors and available through tools such as ChatGPT



Research question: what are the accessibility, inclusivity, and learning implications of AI-assisted coding in Fine Art education?

```
1 #!/usr/bin/env python3
2 """
3 lagtime-loader-version7.py
4
5 Chrome window/tab orchestration for Pop!_OS (X11) using:
6 - CSV score file
7 - google-chrome (.deb) with command-line flags
8 - wmctrl for post-launch geometry enforcement
9
10 Version 7:
11 - Adds WINDOW_BREAKER_TROUBLESHOOT:
12   If enabled, and the last REAL window launched was fullscreen
13   (according to the CSV), then the *next* time you press 'n',
14   the script will first open a small dummy "breaker" window
15   (about:blank, narrower, resized) to try to reset Chrome's
16   window-state behaviour.
17   After launching the breaker, it re-prompts for 'n' on the
18   same real window, and then launches that real window normally.
19 """
20
21 import csv
22 import os
23 import subprocess
24 import sys
25 import time
26 from typing import Dict, List, Tuple, Optional
27
28
29 # =====
30 # == CONFIGURABLE SETTINGS ==
31 # =====
32
33 # CSV filename (must exist in the working directory)
34 CSV_FILENAME = "lagtime-startup-score-data-complete.csv"
35
36 # When True, ignore CSV positions/sizes and launch all windows fullscreen/maximized.
37 ALL_FULLSCREEN = False
38
39 # NEW: Window-breaker troubleshoot toggle.
40 # When True AND ALL_FULLSCREEN is False:
41 #   - If the last REAL window launched was fullscreen (per CSV).
```

Interviews as research method

1. Semi-structured interviews with template questions
2. Aimed to get respondents from different levels and backgrounds
3. Interviews were supported by studying participant's AI-aided code



Reflection on research method

1. Due to time constraints, I had 2 respondents, however, fortuitously four academic years apart.
2. Questions were requested in advance.
3. One respondent answered the questions in writing rather than at interview.
4. Rather than viewing this deviation as a failure, I draw on Mike Michael's concept of "idiotic methodology" (Michael, 2012)
5. Future iterations of the study would adopt 'cultural probes' (Gaver and Dunne, 1999)

Michael, M. (2012). De-signing the object of sociology: Toward an 'idiotic' methodology. *The Sociological Review*, 60, pp.166-183.

Gaver, B., Dunne, T. and Pacenti, E. (1999). Design: cultural probes. *interactions*, 6(1), pp.21-29.

Research Findings

A wide-angle photograph of a pebbly beach. In the foreground, a woman in a black jacket and light-colored pants is crouching, looking at something in her hands. The beach is covered in small, multi-colored pebbles. In the background, several other people are scattered across the beach, some crouching and others standing. To the left, there is a body of water with a small bridge and buildings. To the right, there is a long, low concrete structure with a dark roof, possibly a pier or a walkway. The sky is blue with some clouds, and the overall scene suggests a field research or environmental study.

Respondent A	Respondent B
<p data-bbox="614 322 1080 365">Year 1 Cohort 2025/26</p> <p data-bbox="570 439 1123 482">No prior coding experience</p> <p data-bbox="461 555 1243 655">Described first vibe coding experience as alienating and reduced confidence</p> <p data-bbox="494 726 1210 826">Anxiety of not being able to explain their code</p> <p data-bbox="466 898 1238 998">preferred AI tools with an educational approach</p> <p data-bbox="453 1069 1251 1169">Agreed it was important to understand code</p>	<p data-bbox="1472 322 1923 365">Year1 Cohort 2021/22</p> <p data-bbox="1454 439 1941 482">Prior coding experience</p> <p data-bbox="1327 555 2074 598">Reported a largely positive trajectory</p> <p data-bbox="1332 669 2068 826">Described AI as an accelerant of coding abilities, helping overcome a learning plateau</p> <p data-bbox="1335 898 2066 941">Increased confidence and ambition</p> <p data-bbox="1337 1012 2063 1169">Progressed towards more ideas-led projects rather than working within technical means</p>

Reflection of findings

1. Vibe coding isn't a leveler of coding competence and confidence. Instead, it amplifies pre-existing disparities in coding ability and experience.
2. Vibe coding evidently makes new starters uncomfortable with issues of dependency, authorship, and understanding. Conversely, students with prior coding race ahead.
3. Both respondents nevertheless saw the value of vibe coding in furthering art practice and creative goals.
4. Both respondents believed in the value of understanding the code for themselves and needing that technical grounding.

Future pedagogical ideas and intervention

1. Vibe coding should not be treated as neutral nor left for students to discover for themselves. Doing so risks reproducing existing inequalities, where students with prior skills benefit disproportionately, with novices experiencing anxiety, dependency, or disengagement.
2. Introduction of early diagnostic activities that assess students' confidence, prior exposure, and understanding of coding concepts would inform tailored support.
3. Vibe coding could be introduced in a structured and reflective way, with support and critical reflection built into the curriculum.

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Thank you for
listening!

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