Code & Data

Experiences of Learning to Code

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This page describes and locates the various code and data artifacts produced during the project.

Privacy considerations

Where research involves real human lives, there can be a tension between the transparency and reproducibility goals of the researcher, and the obligation to take every reasonable precaution to protect the privacy and security of the people involved.

We sought to strike a balance; we intend to publish a collection of the most relevant sections of interviews, after making certain to redact potentially identifiable or irrelevant information, but not the interviews in their entirety.

This is in line with the informed consent form[1] signed by all participants prior to their interview, which gives permission to publish *"sections of the interview"* in *"research outputs and websites"*.

The full interview transcripts will **not** be made public at any time.

Available code & data

- Survey json x2
- Survey data
- Code for analysing and visualising survey data
- Dataset of quotes (unsure if this will be published or available on request)
- Teams transcript formatter

[1] jisc-surveys/participant_info.html

Authors

During the relevant time period (2024), all authors were affiliated with the School of Physics & Astronomy at the University of Edinburgh. **Joe Marsh Rossney** had recently completed a PhD in theoretical physics, during which time they were a teaching assistant on several different programming courses. **Sarah Hogarth** had recently completed a Bachelors degree in physics, where their dissertation focused on the impact of Generative AI on physics education. **Polux Gabriel Garcia Elizonda** was a Master's student in physics, having also completed a dissertation on Generative AI in physics education. **Ross Galloway** was a Senior Lecturer and leader of the Physics Education Research Group. **Britton Smith** was a Reader in the Institute for Astronomy and Course Organiser for an introductory Python course taken by physics undergraduates.

Author contributions

CRediT: **JMR**: Conceptualisation (lead), Data curation (lead), Formal analysis (equal), Funding acquisition (lead), Investigation (lead), Methodology, Project administration (equal), Software, Supervision (of SH & PGGE), Writing - original draft. **SH**: Data curation (supporting), Formal analysis (equal), Investigation (supporting). **PGGE**: Data curation (supporting), Formal analysis (supporting), Investigation (supporting). **RG**: Conceptualisation (supporting), Funding acquisition (supporting), Project administration (equal), Supervision (of JMR), Writing - review & editing. **BS**: Conceptualisation (supporting), Funding acquisition (supporting).

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