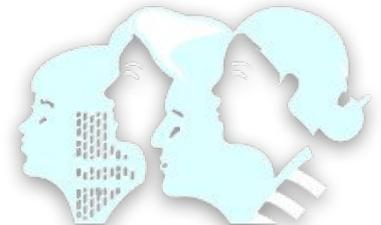




Nigeria: Exploring the computational challenges of women in physics

*Ibiyinka A. Fuwape , Samuel T. Ogunjo , Rabia Sa'id , Madu A. Chinyere ,
Okwesili N. Agatha and Aderonke Obafaye*



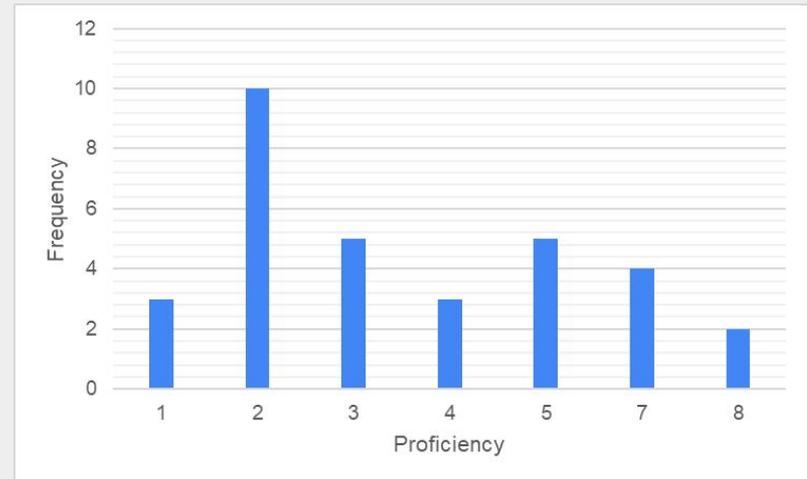
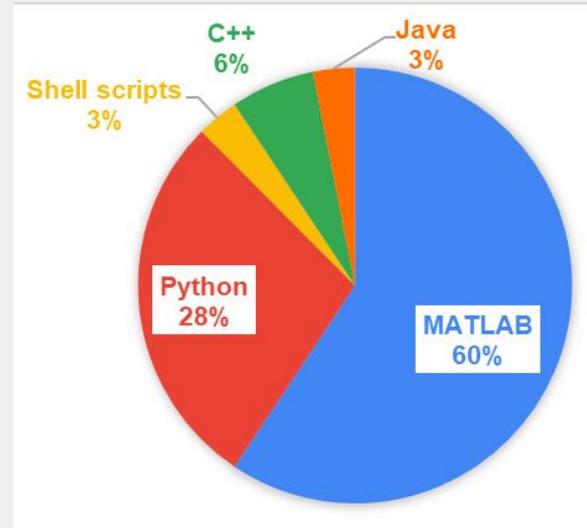
Status of women in Nigerian academic

- There are 217 Universities in Nigeria
- Females currently heads 9 of these universities
- There have been attempts to increase the number of women in physics (Fuwape et al, 2015, 2018, 2019).



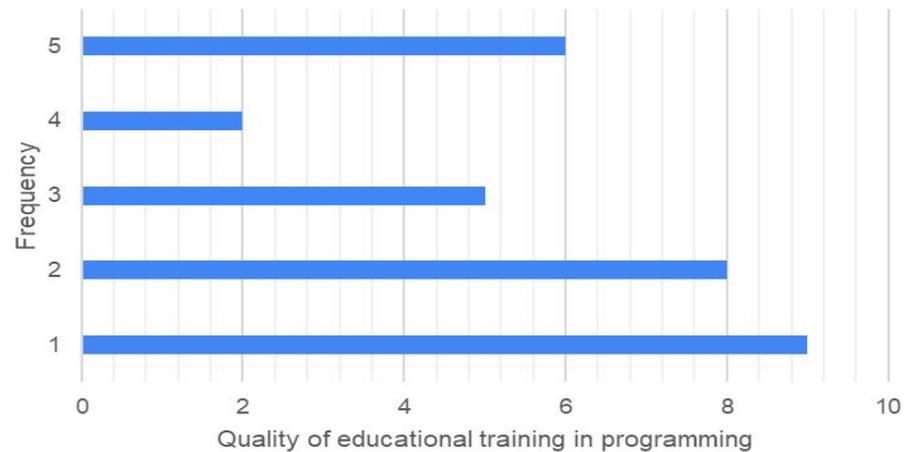
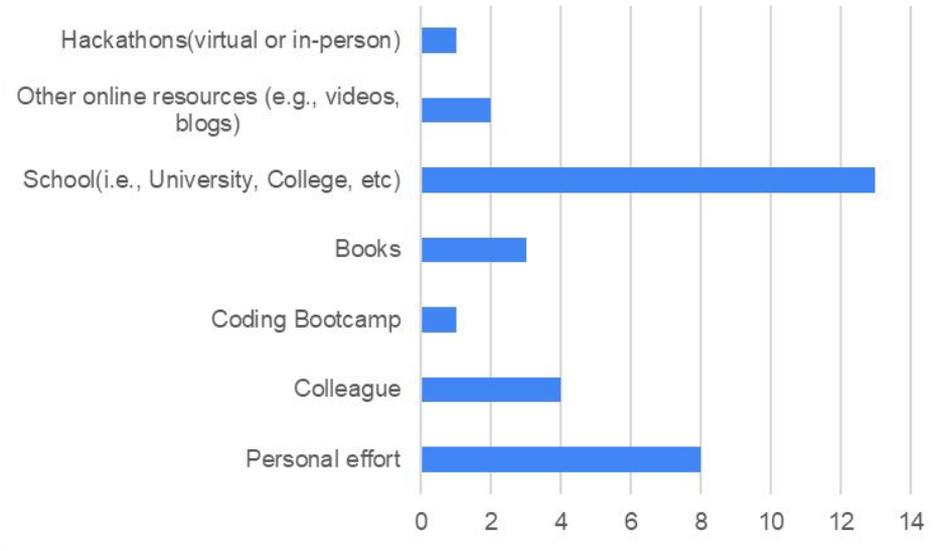
Gap in Scientific Programming

- A survey of 32 women in physics across 25 universities
- Many women have experience using at least one programming languages.
- However, the proficiency in this programming language is largely basic.
- There is the need to increase the programming skills of women



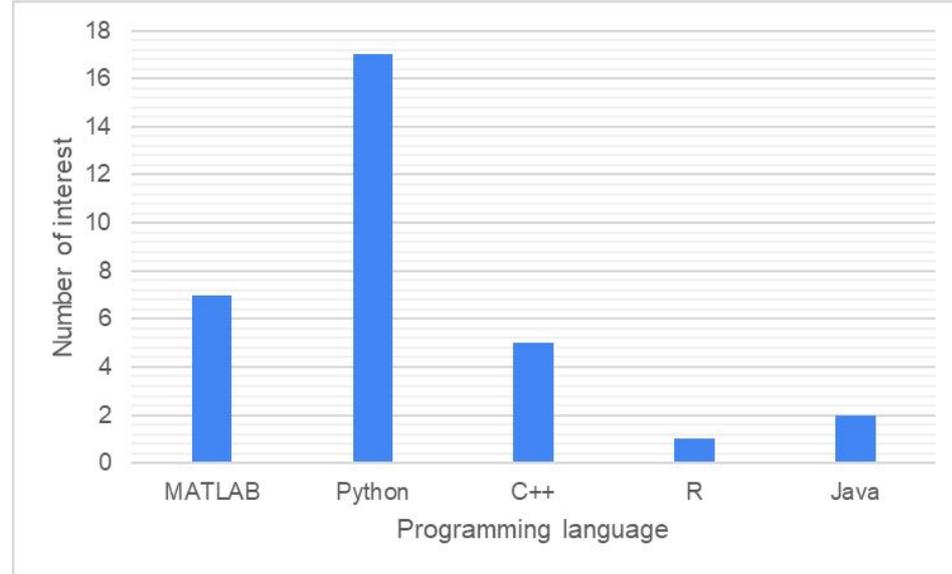
Sources of training

- Most women learn to code during normal education
- This training takes place within a semester and is generally inadequate for research or industry
- Most women found it to be less relevant to their current needs.



Programming needs of women in physics

- All women surveyed showed interest in further training.
- Most require training in Python.
- There was a preference for physical training.
- The biggest challenge to learning coding were time, budget and resources.



Conclusion & Recommendation

We found that there exist a gap in the computational knowledge of women in Physics.

The challenges include inadequate training in the curriculum, lack of opportunities, cost of training, and available time.

It is therefore necessary to design holistic solutions that will cater for these needs.

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Thank you