

## Code review to enhance research training, collaboration, and communication



Lindsay Peterson  
UNSW Sydney

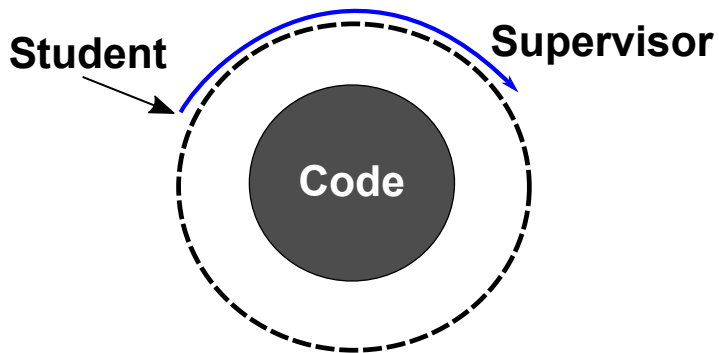
`lindsay.peterson@unsw.edu.au`



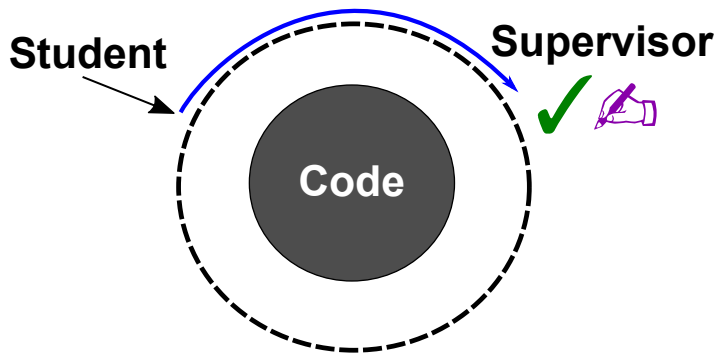
Damien Mannion  
UNSW Sydney

`d.mannion@unsw.edu.au`

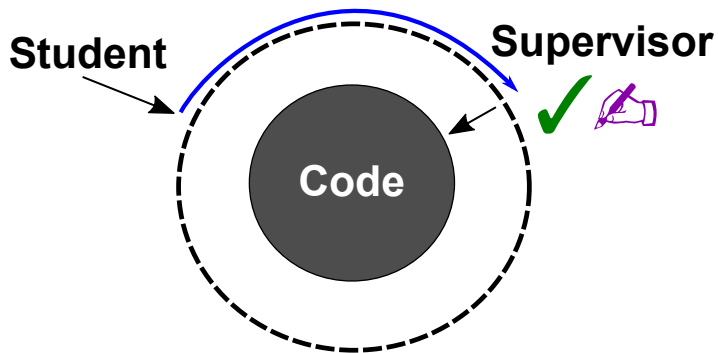
## Code review for research training




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# Code review for research training

 lindsaympeterson added 2 commits 7 days ago


-  adding render code f898855
-  black c91a16d


 lindsaympeterson requested a review from djmannion 7 days ago

 djmannion requested changes 7 days ago [View changes](#)



shape\_illum\_prep/render.py Outdated [Hide resolved](#)



```
60 + resources_path=conf.resources_path,
61 + )
62 +
63 + try:
```

 djmannion 7 days ago [+ @](#) ...  
Can also get rid of the `try` `except` if using `with`.



[Unresolve conversation](#) lindsaympeterson marked this conversation as resolved.

  djmannion approved these changes 6 days ago [View changes](#)

  djmannion merged commit 3422a0d into master 6 days ago [Revert](#)

## Code review for research training

### **Benefits for students and supervisors:**

- ▶ Promotes student involvement in all areas of research project while supervisor still has oversight.
- ▶ Useful companion for teaching students programming, and both general and lab-specific research practices.
- ▶ Students gradually move from reviewing to authoring code as their programming skills improve.

## Code review for research collaboration

**Student**

**Supervisor**



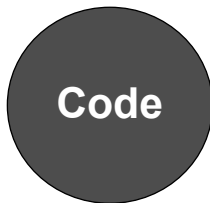
**Code**

**Collaborator**

## Code review for research collaboration

**Student**

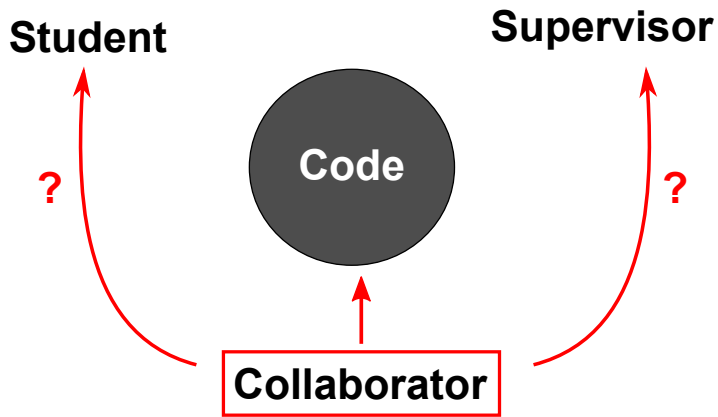
**Supervisor**



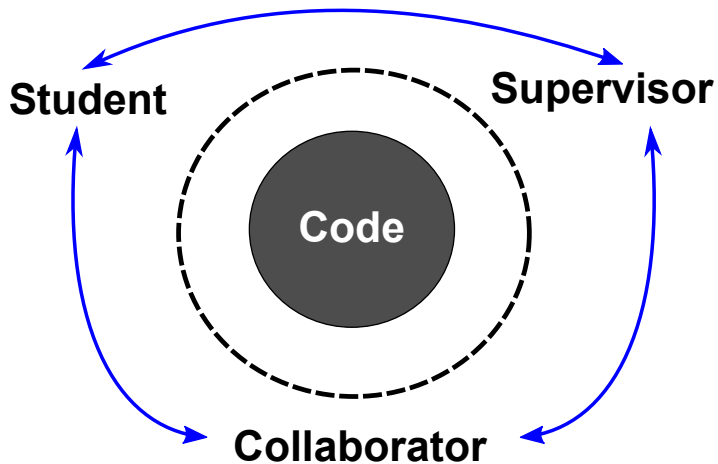
**Collaborator**



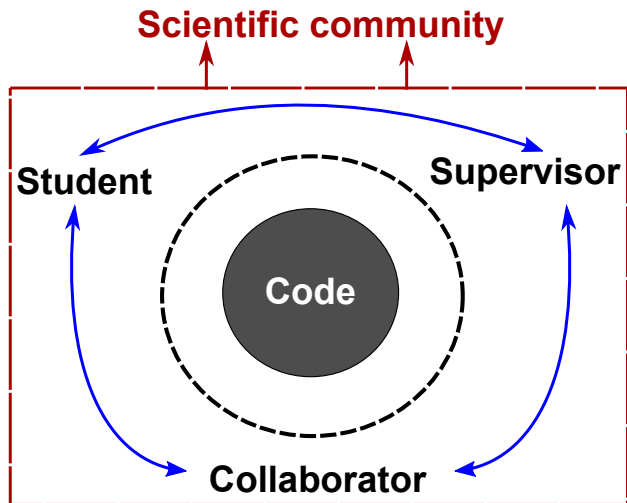
## Code review for research collaboration



## Code review for research collaboration



## Code review for research communication



## Code review: research training, collaboration, & communication

The code review process has benefits for students, supervisors, and the wider scientific community:

- ▶ Facilitates students' learning of research methods and tools.
- ▶ Supports the sharing knowledge of, and responsibility for, research decisions.
- ▶ Encourages authors to write readable code, which is important for interpretability by the scientific community.

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