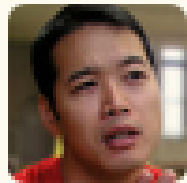

Problems with research software

- Does it even work?
- Will it still work when I have to revisit the subject in a couple of years? How will I be able to tell?
- Will I be able to understand the code?
- Can anyone else understand it?

You face these problems even if you don't care about reproducibility, openness, availability to other researchers, etc



Elliot Loh

@loh



Always wanted to travel back in time to try
fighting a younger version of yourself?
Software development is the career for you!



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What helps?

- **Sharing code** – code review – dissemination and discussion
- **Version control** – keep track of what changed and why, return to an earlier state
- **Software testing** – unit tests, regression tests

We'll be looking at...

Keeping an experimental log with IPython Notebook

- So you can get feedback from others
- So you'll be able to understand later what you were doing

Modularising and testing common components

- So you can be more confident they work correctly
- So you'll know if they ever stop working correctly

Managing it all in version control

- So you can recover specific versions
- So you can review what you did