

AAE 724 – Practicum for Applied Economists

Cornelia Ilin, PhD

Guanming Shi, PhD

Department of Ag & Applied Economics

UW-Madison

Version control

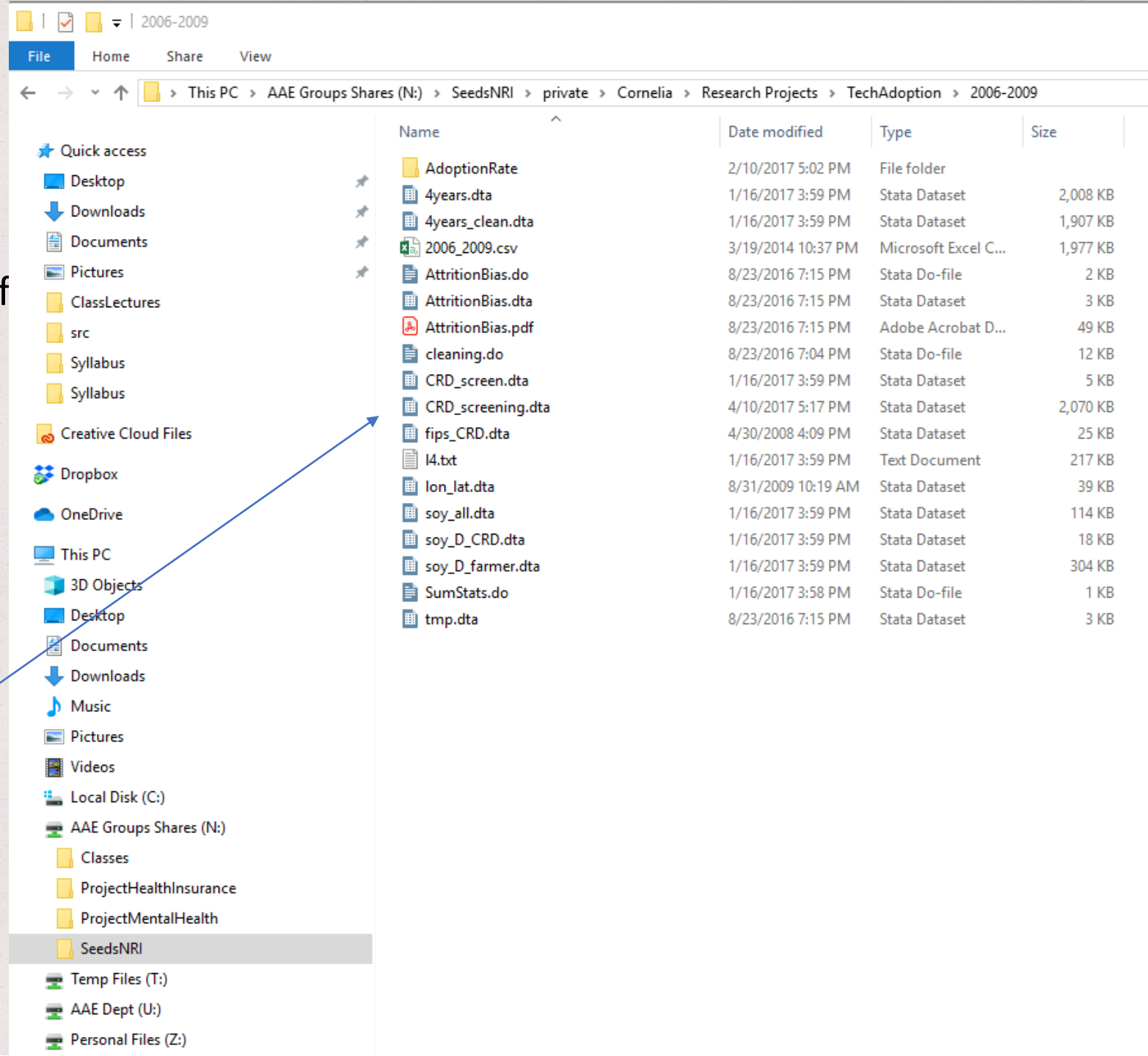
- Extremely important for project file management!

Version control

- Extremely important for project f

This is me a couple of years ago!

Sadly, I am not able to tell you what is the main code, what each data set means... why I have .csv, .txt, .pdf files in the same place with no related meaning... I don't know!!!

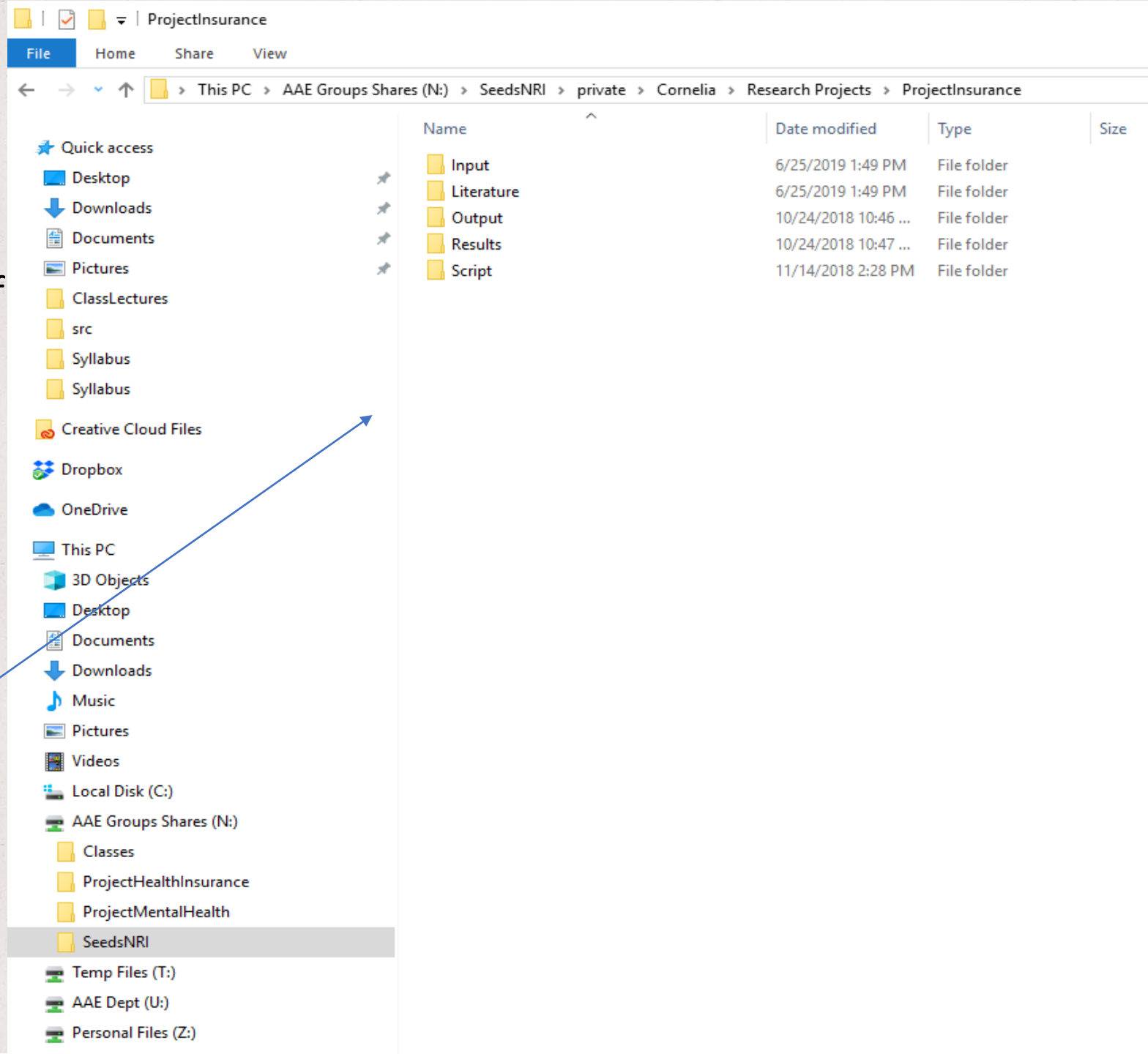


Version control

- Extremely important for project f

And this is me after grad school

Just ask me a question about this project to see if I know what's going on here 😊



Version control

- Extremely important for file management!
- Allows for collaborations (what if a team of 10 people work on the same project at the same time?)

Version control

- Extremely important for file management!
- Allows for collaborations (what if a team of 10 people work on the same project?)
- Two types of version control:
 - Local, in a computer's hard drive (cat-proof but not disaster-proof)
 - In the cloud, stored on a server (cat-proof and disaster-proof)

Version control - local

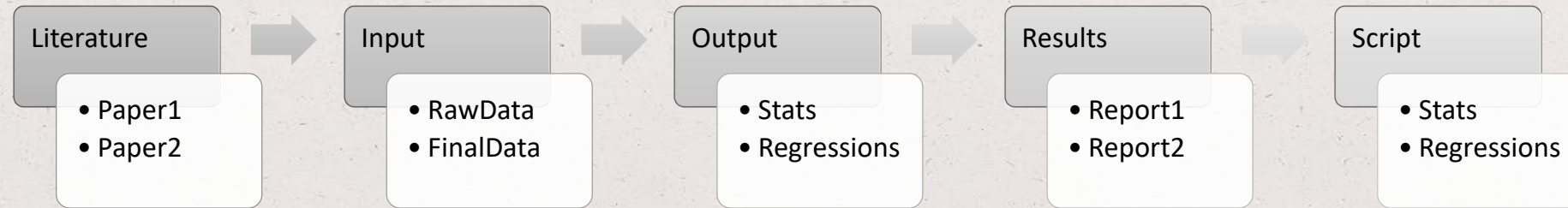
- What if you work for a company whose work is deemed 'highly confidential'?
- You cannot put any work on a server *that is located at some address in Western Europe*

Version control - local

- What if you work for a company whose work is deemed 'highly confidential'?
- You cannot put any work on a server *that is located at some address in Western Europe*
- All you can do is to implement version control in a computer's hard drive
- Allows for collaborations – provided computers are connected to the same network

Version control - local

- One example of Project Management (suitable for economists)



Version control - local

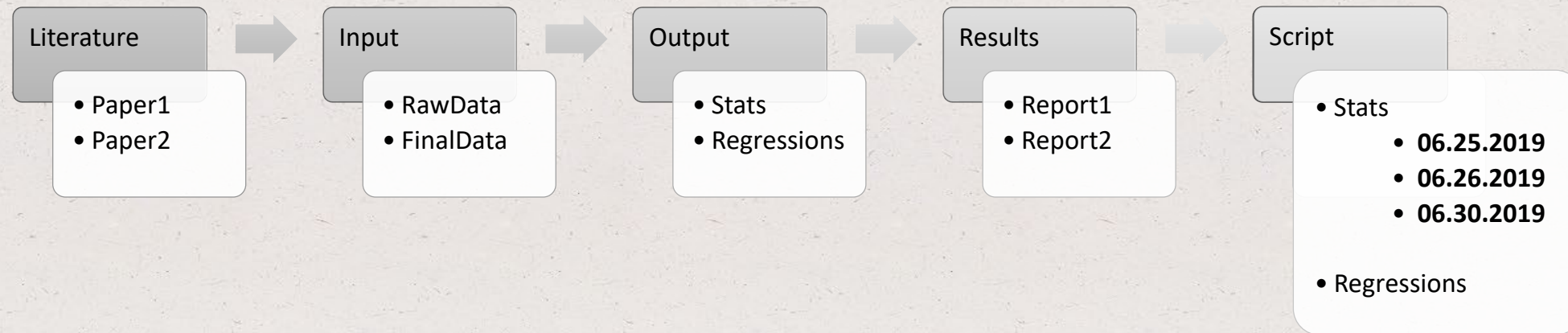
- One example of Project Management (suitable for economists)



- How can we track changes made? (yes, you will change your code multiple times!)

Version control - local

- One example of Project Management (suitable for economists)

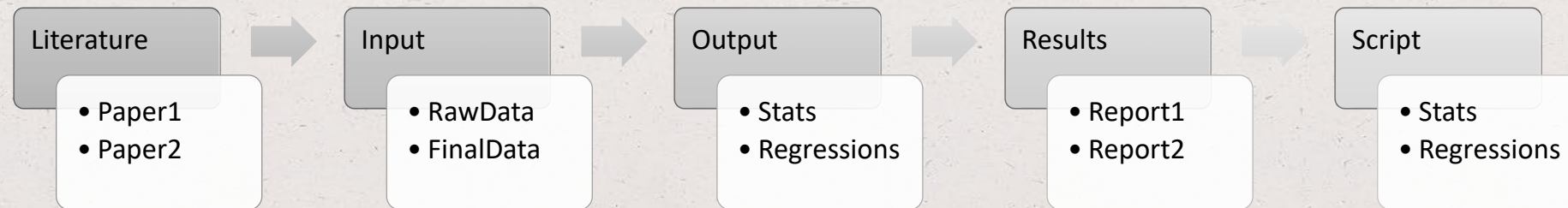


Option 1: **Never edit existing code!**
Create a new version and edit there

- How can we track changes made? (yes, you will change your code multiple times!)

Version control - local

- One example of Project Management (suitable for economists)



Option 2: use **Git**, a distributed version-control system
<More information on website>

- How can we track changes made? (yes, you will change your code multiple times!)

Version control - server

- Code written on your computer's hard drive is cat-proof but not disaster-proof
- Disaster-proof: if your computer explodes there is no way for you to recover the information
- To disaster-proof your work “push” your local project folder to a server (confidentiality?)
- GitHub offers you this service (i.e. GitHub can host a (Git) repository)

Version control - server

- Code written on your computer's hard drive is cat-proof but not disaster-proof
- Disaster-proof: if your computer explodes there is no way for you to recover the information
- To disaster-proof your work “push” your local project folder to a server (confidentiality?)
- GitHub offers you this service (i.e. GitHub can host a (Git) repository)
- Keep in mind that **Git ≠ GitHub**