

Introductory material

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welcome/pandemic issues

- **DON'T PANIC** (Adams 1995)
- recording
- ask questions! make (constructive) suggestions!
- too fast? too slow? let me know ...

Course contents/philosophy

- introduction to **doing** math biology, i.e. research
- reading, deriving, analyzing (data), computing, some philosophy
- “God is in every leaf of every tree” (Andrew Gelman)

Course outline

academic integrity stuff

- collaboration
 - managing interactions
 - acknowledgment
- software: code from web, libraries etc.
 - why?
 - * code reuse is good
 - * can do more/more interesting things if you don't waste time writing trivial code
 - * reusing code is like real life
 - * a little advice on learning programming from the web ([here](#))
 - googling the error message is OK!
 - learn how to ask: vocabulary, *minimal reproducible examples* etc.
 - why not?
 - * some code from the web is terrible
 - * you might learn less, not understand what you're copying ...
 - **MUST acknowledge** (and use within licenses)
 - [academic code integrity examples from MIT](#)

Introductions

- who are you, what do you want to be called?
- one aspect of biology/math that interests you
- one random piece of information about yourself

Tech/nuts and bolts

Communications

- [Avenue 'hub'](#)
- [Main course page](#)
- Teams
- Zulip

Code tools

- R **or** Python
- cloud tools: [syzygy](#) or RStudio cloud
- LaTeX

References

Adams, D. 1995. *The Hitchhiker's Guide to the Galaxy*. 1st edition.
New York: Del Rey.