How & what to cite in a scientific publication

Andreas Frommer

Bergische Universität Wuppertal



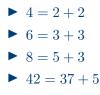
MATHEMATICAL MODELLING, ANALYSIS AND COMPUTATIONAL MATHEMATICS



BERGISCHE UNIVERSITÄT WUPPERTAL

Conjecture (Goldbach 1742)

Every even number larger than 2 is the sum of two primes



Has the conjecture been proven?

We ask

- ► Google
- arXiv
- journals Journal number theory and applications
- Independent Academia
- ChatGPT

Peer review vs preprint servers (arXiv)

Peer-reviewed journals and conferences

- \oplus (anonymous) specialists review the submission and make a recommendation
- ⊕ editor will tell you: accept, minor changes, major changes, reject
- $\oplus \,$ often: article copy-edited prior to publication
- \ominus reviewing and processing delays, restricted access

Preprint servers and "all-accept" conferences

- \oplus timely and open access
- sometimes: sanity check
- sometimes: versioning
- \ominus no review, no copy-editing, author's responsibility

FAIR

- findable
- accessible
- ▶ interoperable
- reproducible

Submitting to a peer-review journal:

- Every journal has a style for bibligraphies
- You must conform to this style
- Every science has a standard for journal/conference abbreviations
 - physics
 - mathematics
 - computer science conferences

How to build your bibliography

- do it now and do it right
- use bibtex
- use a tool to build your bibiliography: KBibTex
- for each reference: collect complete information
 - First names
 - doi
 - Full title
 - etc.
- bibtex users: use correct capitalization
- Ask your supervisor before you start
- whenever possible: use journal article, not arXiv

The bibliography of your thesis is your business card in academia