Graduate Admission Training: Literature Research

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Contents

1 Scientific Research Process

1.1 Classical Research Process for Chinese Students

Figure 1: Academic misconduct

The worst way. Did not write any paper, graduated by their black box operation.

Figure 2: Buy journal layouts

The most convenience way. Someone who did not have done enough preparation, wasting time on dating, hanging or gaming. When the deadline comes, they didn't have enough time to finish a high quality paper, so they buy some layouts from some journals who promised your paper can be retrieved.

Figure 3: Find a paper and change some codes

The most common way. If you did not have any hidden power or money, you might have to follow the primary way to write paper. But most of those students regard the scientific research as the Copy and Fine-tuning process. They just copy other authors results and add/minus something from the original paper/code, and then claim that is their achievement.

1.2 Academic Integrity

Academic integrity is the moral code or ethical policy of academia. This includes values such as avoidance of cheating or plagiarism; maintenance of academic standards; honesty and rigor in research and academic publishing.[2]

Honesty is the foundation of good academic work. Whether you are working on a problem set, lab report, project or paper, avoid engaging in plagiarism, unauthorized collaboration, cheating, or facilitating academic dishonesty. Follow this advice[1]:

Plagiarism	
Do	**Don't**
Trust the value of your own intellect.	Don't purchase papers or have someone write a paper for you.
Undertake research honestly and credit others for their work.	Don't copy ideas, data or exact working without citing your source.
Unauthorized Collaboration	
Do	**Don't**
Do your own thinking.	Don't collaborate with another student beyond the extent specifically approved by the instructor.
Plagiarism	
Do	**Don't**
Demonstrate your own achievement.	Don't copy answers from another student; dont ask another student to do your work for you. Dont fabricate results. Don't use electronic or other devices during exams.
Accept corrections from the instructor as part of the learning process.	Don't alter graded exams and submit them for re-grading.
Do original work for each class.	Don't submit projects or papers that have been done for a previous class.
Plagiarism	
Do	**Don't**
Showcase your own abilities.	Don't allow another student to copy your answers on assignments or exams. Don't take an exam or complete an assignment for another student.

Table 1: MIT Academic Integrity for students

1.3 Correct Research Process

1. Find the subarea you are going to study
2. **Search literature, read survey, then read the past few years paper**
3. **Note everything you need, like questions, models, datasets, evaluation methods**
4. List those unfinished problems
5. Propose your own idea
6. **Do the search again, make sure your method is individual**(These time, you find the related works)
7. Write down your methods, finish the paper.($Proposal \longrightarrow Experiments \longrightarrow Relatedwork \longrightarrow Introduction \longrightarrow Conclusion \longrightarrow Abstract$)

2 Literature Search

2.1 Google Scholar

URL:https://scholar.google.com.hk

Figure 4: Google Scholar

2.2 ArXiv

URL:https://arxiv.org/

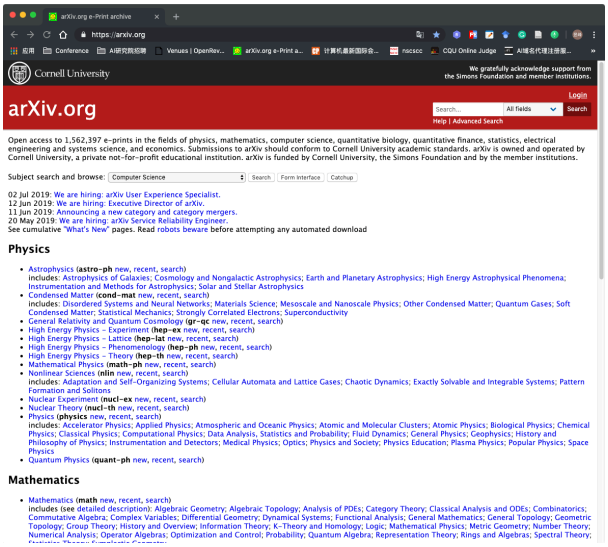

Figure 5: ArXiv

2.3 Digital library resources

URL:`http://lib.cqu.edu.cn/databaseguide`

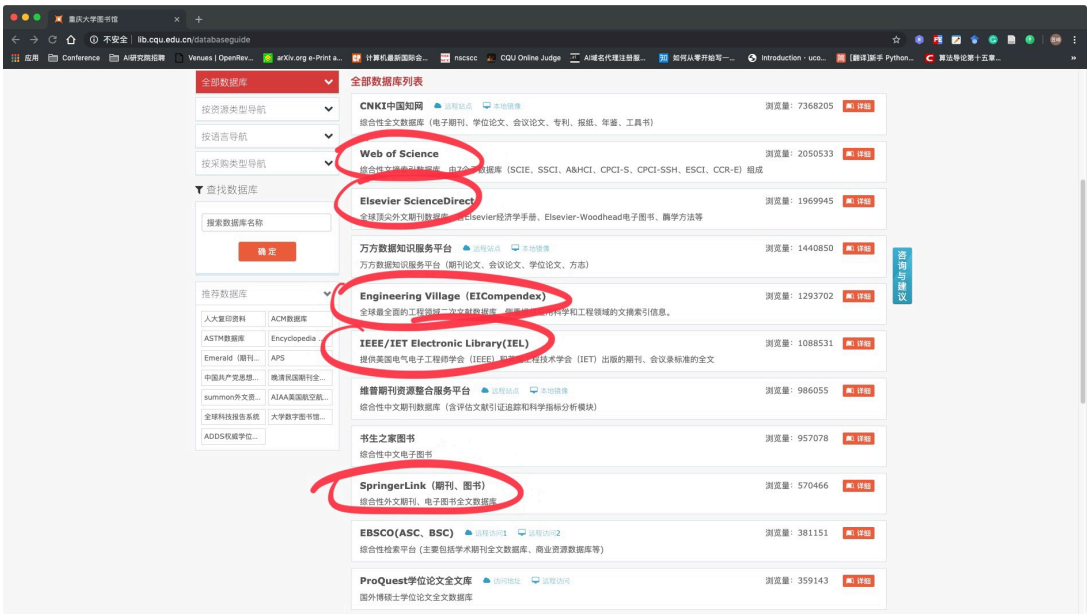

Figure 6: Digital library resources

2.4 Conference paper search

URL:`https://www.aclweb.org/anthology/`

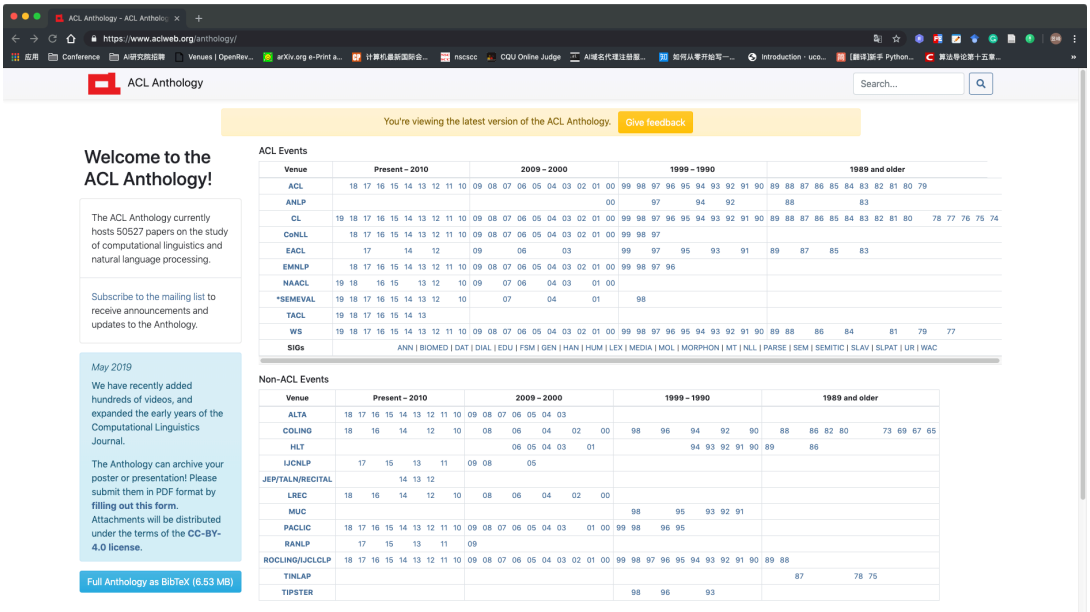

Figure 7: ACL Anthology

2.5 Journal Paper Search

3 Literature Management

3.1 Zotero

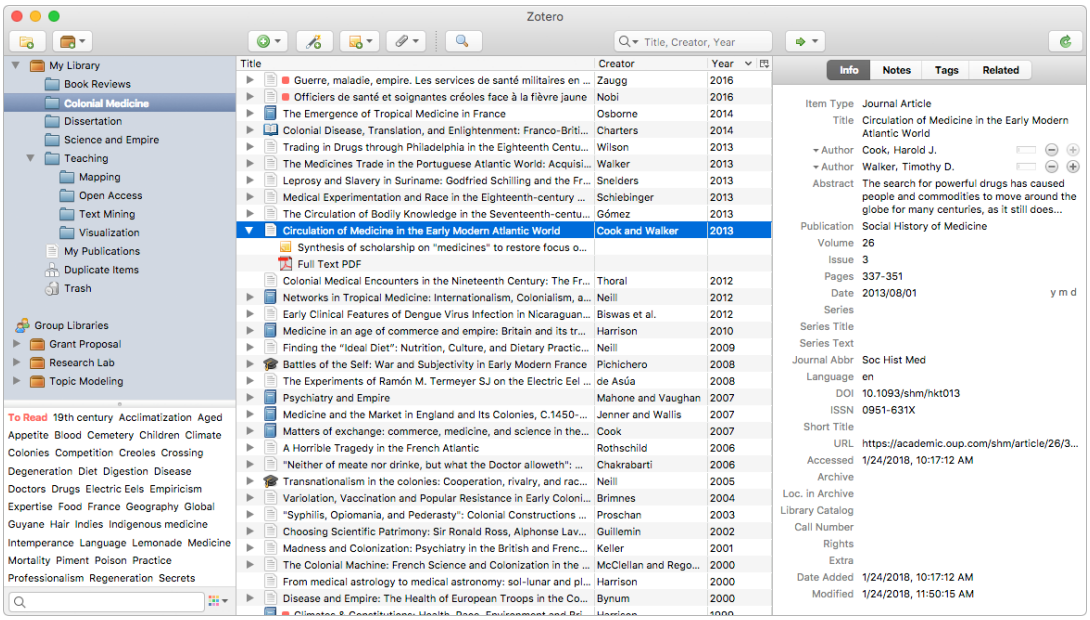

Figure 8: Zotero

`https://www.zotero.org/download/`

Figure 9: Zotero Download

3.2 Jianguo Cloud

`https://www.jianguoyun.com/`

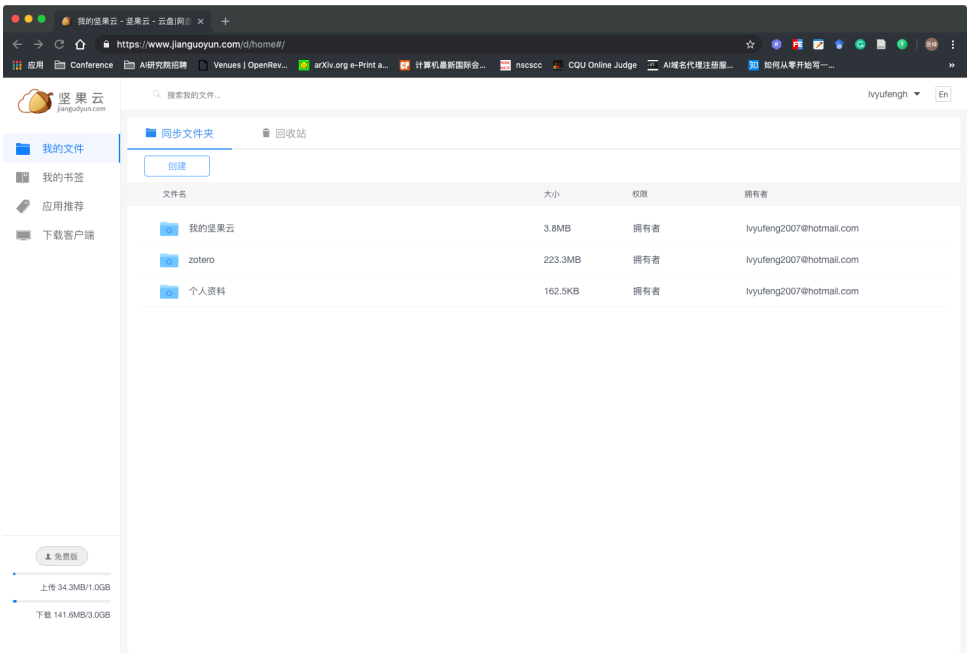

Figure 10: Jianguo Cloud

4 Paper with Code

`https://paperswithcode.com/`

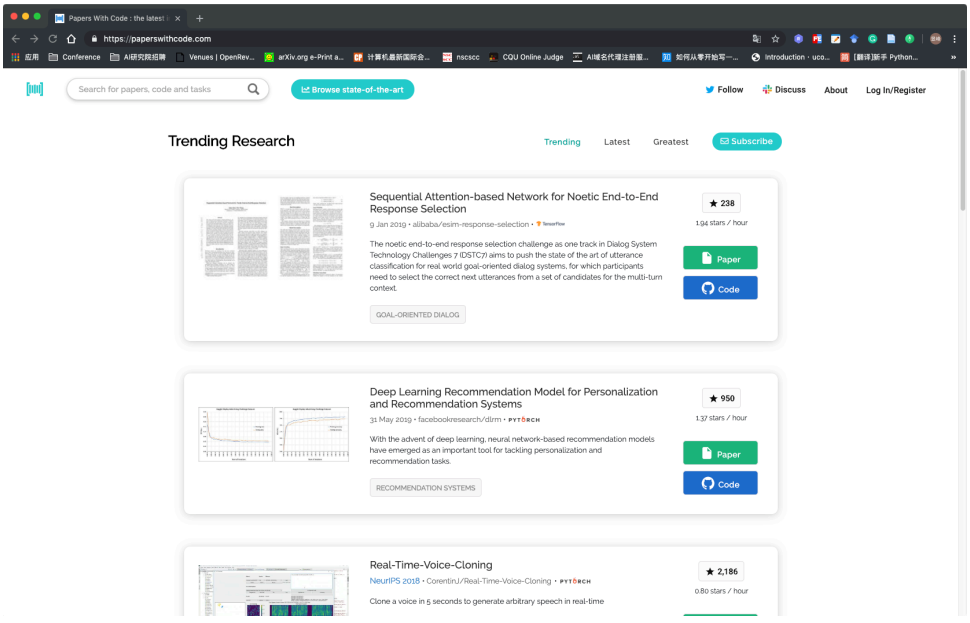

Figure 11: Paper with Code

5 Online LaTeX Editor

`https://www.overleaf.com/`

6 How to Find Suitable Conferences/Journals

6.1 CCF recommendation

A Class.

1	AAAI	AAAI Conference on Artificial Intelligence
2	NeurIPS	Annual Conference on Neural Information Processing Systems
3	**ACL**	**Annual Meeting of the Association for Computational Linguistics**
4	ICML	International Conference on Machine Learning
5	IJCAI	International Joint Conference on Artificial Intelligence

Table 2: A Class Conference

B Class.

1	**EMNLP**	**Conference on Empirical Methods in Natural Language Processing**
2	**COLING**	**International Conference on Computational Linguistics**

Table 3: B Class Conference

C Class.

1	AISTATS	Artificial Intelligence and Statistics
2	ACML	Asian Conference on Machine Learning
3	**NLPCC**	**CCF International Conference on Natural Language Processing and Chinese Computing**
4	CoNLL	Conference on Computational Natural Language Learning
5	ICTAI	IEEE International Conference on Tools with Artificial Intelligence
6	ICANN	International Conference on Artificial Neural Networks
7	ICONIP	International Conference on Neural Information Processing
8	IJCNN	International Joint Conference on Neural Networks
9	**NAACL**	**The Annual Conference of the North American Chapter of the Association for Computational Linguistics**

Table 4: C Class Conference

6.2 Journal Citation Reports

6.3 Not recommended list

6.3.1 Hindawi Publishing Corporation

Including but not limited to the following journals:

1. Abstract and Applied Analysis
2. Complexity
3. Discrete Dynamics in Nature and Society
4. Journal of Applied Mathematics
5. Journal of Computer Networks and Communications
6. Journal of Control Science and Engineering
7. Journal of Electrical and Computer Engineering
8. Journal of Engineering
9. Journal of Mathematics
10. Journal of Robotics
11. Journal of Sensors
12. Mathematical Problems in Engineering
13. Scientific Programming
14. Security and Communication Networks
15. The Scientific World Journal
16. VLSI Design
17. Wireless Communications and Mobile Computing

6.3.2 Multidisciplinary Digital Publishing Institute

Including but not limited to the following journals:

1. Algorithms
2. Applied Sciences
3. Applied System Innovation
4. Big Data and Cognitive Computing
5. Biosensors
6. Computation
7. Computers
8. Electronics
9. Informatics
10. Information
11. Instruments
12. Journal of Imaging
13. Journal of Intelligence
14. Journal of Low Power Electronics and Applications
15. Journal of Manufacturing and Materials Processing
16. Journal of Sensor and Actuator Networks
17. Materials
18. Mathematical and Computational Applications
19. Mathematics

20. Methods and Protocols
21. Robotics
22. Sensors/Sensors-Basel
23. Systems
24. Technologies
25. Vision

6.3.3 World Scientific

1. 1. International Journal of Modern Physics Conference Series (IJMPCS)
2. Journal of Advanced Dielectrics (JAD)
3. Journal of Innovative Optical Health Sciences (JIOHS)
4. Molecular Frontiers Journal (MFJ)
5. Reports in Advances of Physical Sciences (RAPS)

6.4 Other Open Access Journals

1. Plos One
2. Scientific Reports
3. IEEE Access

References

[1] *Academic Integrity at the Massachusetts Institute of Technology: A Handbook for Students*.

[2] Academic integrity, April 2019. Page Version ID: 891912587.