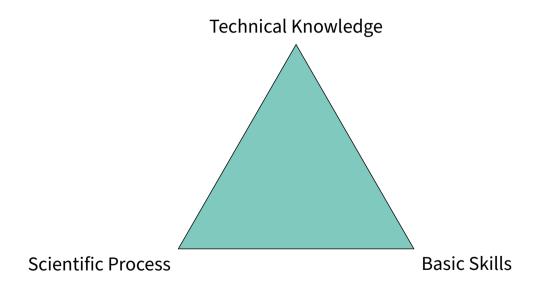


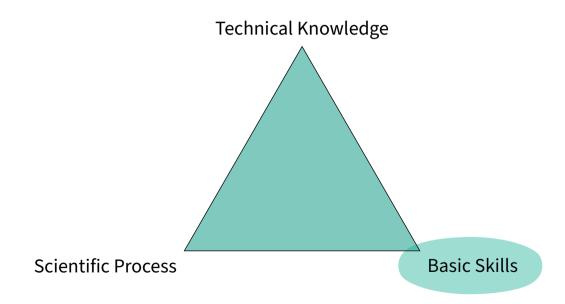
# Seminar goals





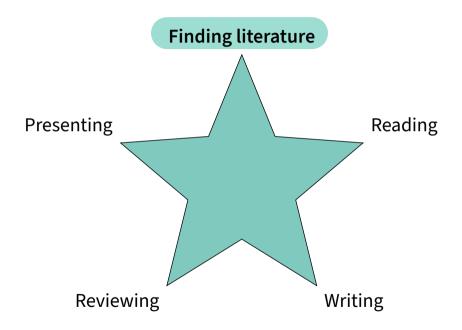
# Seminar goals





### Skills





# Finding literature



- Conferences/publication sites
- Search engines
  - ► Google Scholar
  - Springer
  - ► IEEE Xplore
  - DPBL
  - Citeseer



## Keep it organized



Reference management software

Zotero, Citavi,...

Tip: author+year+first\_word



Example: Dwork2014algorithmic

## Search Techniques



#### Backwards

Which papers are cited in the reference



**Figure 1:** The reference you are currently reading

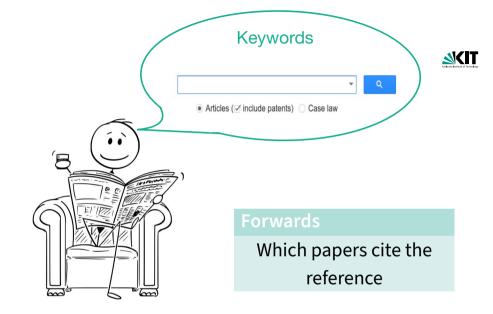
#### Forwards

Which papers cite the reference

### Search Techniques

#### Backwards

Which papers are cited in the reference



**Figure 1:** The reference you are currently reading

#### Selection



#### Check skim paper

- Area of research
- Assumptions, system vs. evaluation,...
- 1. Title
- 2. Abstract
- 3. Conclusion
- 4. Introduction
- 5. Everything else (as needed)

#### Check conference quality

- Ranking systems:
  - Core: A\*, A, B, C
  - (http://portal.core.edu.au/conf-ranks/)
  - ► ERA, Qualis,...
- Number of citations
- Year of publication



### Top Conferences



#### (Practical) IT-Security:

- A\* IEEE S&P (Security and Privacy)
  Usenix NDSS (Network and Distributed System Security) Usenix Security
  ACM CCS (Computer and Communications Security)
- A: AsiaCCS, ESORICS, ...

#### Privacy:

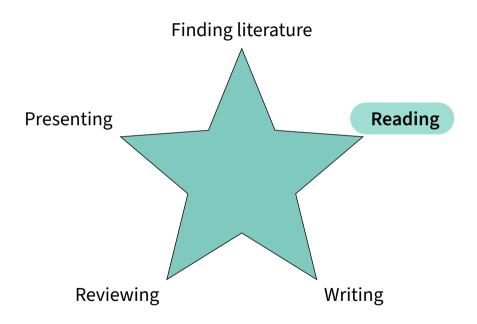
A PETS (Privacy Enhancing Technologies Symposium)

#### Cryptography:

- A\* Crypto (Advances in Cryptology ) EuroCrypt (Int. Conf. on the Theory and Application of Cryptographic Techniques)
- A TCC, AsiaCrypt, FC,...

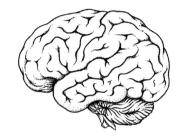
### Skills





## **Before Reading**





Activate knowledge



**Guiding questions** 

## **Techniques**

- 1. Title
- 2. Abstract
- 3. Conclusion
- 4. Introduction
- 5. Everything else (as needed)





skimmming trough

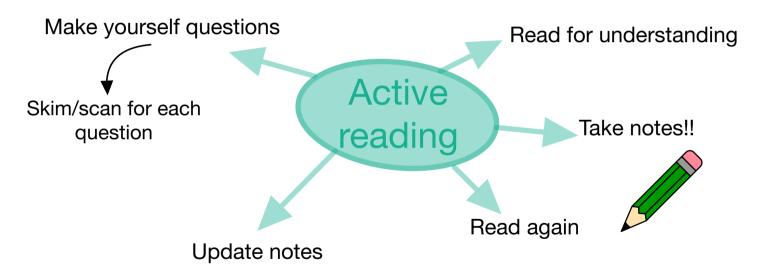
scanning



focused reading

## Possible reading strategy





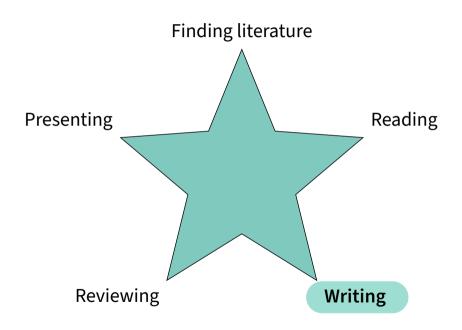
### Further material on reading



- "How to read a paper" by S. Keshav"
  http://blizzard.cs.uwaterloo.ca/keshav/home/Papers/data/07/ paper-reading.pdf
- "About academic reading"
  https://aso-resources.une.edu.au/academic-reading/about- academic-reading/

### Skills





#### Structure



- 0. Abstract
- 1. Introduction
- 2. Related work
- 3. Background
- 4. Main part •
- 5. Conclusion & Future Work



Topology-Theoretic Approach To Address Attribute Linkage Attacks In Differential Privacy Jincheng Wang, Zhuohua Li, John C.S. Lui Department of Computer Science and Engineering
The Chinese University of Hong Kong Rolds Socurity commission benefit boids com Hong Kong, China (icwang, zhii, cskii) @cse.cuhk.edu.hl theory of the control I. INTRODUCTION In the current digital era, personal information is extres Table I is an example that illustrates the attribute Televisian uple, we will represent foor, toothpuste, scissor and hange In this section, we provide the background of DP, then discuss how topology theory [6] can help to tackle the attribute

Correlation Issues in Differential Privacy

978-1-6654-0443-3/21/931-00-0 2021 IEEE
ACCUSED TO A CONTROL OF THE PROPERTY O

A formal definition of DP is given as followings



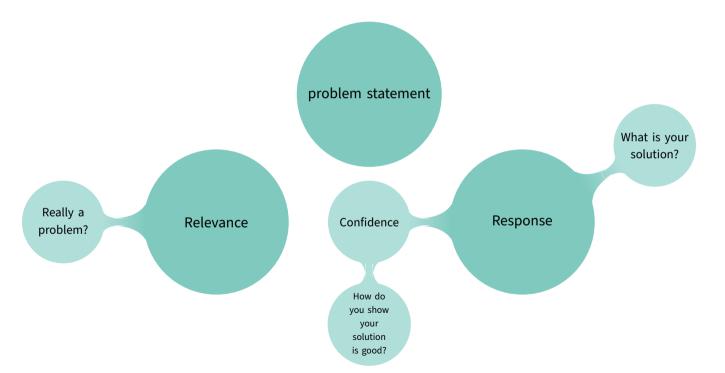
IEEE INFOCOM WKSHPS: BioSecurity 2021: International Workshop on Security and Privacy in Big Data for MSNBC and Checkin datasets. In Figure 5a and Figure 5b experiment excells show that the salation arms for AM Villaregure 4 shows the experiment result, and the experiment essuns snow man the relative error for APLKiller design is similar with that in Section III-B. One can observe is reduced by 3.6% in average, as a varies. In Figure 5c, one can check that APLKiller reduces the relative error by 6.8% can check that APLKiller reduces the relative error by 6.8% compared with that of DiffPart, and 49.1% compared with that of PrivBayes. These show APLKiller has a higher data utility.
For traditional DP algorithms, although a smaller e can decrease the probability of being attacked, the data utility becomes more Housener API Filler eliminates this dilemma No matter how the privacy parameter e is set, the probability of being attacked is guaranteed to be zero. Therefore, our algorithm less publishers to publish the dataset with good data utility, while defending against the attribute linkage attack In this paper, we first show that the attribute linkage attack is a severe problem when using DP. In order to eliminate this attack, we improve DP and propose APL-Free o DP. We further design an algorithm, APLKiller, which leverages the attack. Also, we did not give a clear instruction on how to sarily bound in order to walken the influence of queries with tocheardly small counting answers, we set the samily bound to RIF R4032-18. C. Dwork, A. Both et al., "The algorithmic foundations of different princes," Foundations and Trends® in Theoretical Computer Science (45, 30, 34, 3p. 21–1007, 2014.
 I. Neux, Tolkerostial griving at scale: User and berkeley collaboration in Singura 2016 (Engine 2019), 2018.
 I. Lee and C. Gillian, "How made is mough? choosing a for differential princes," and the contraction of the contracti K. Chen, B. C. Fung, N. Mohammed, B. C. Desar, and K. Wang, "Privacy-preserving trajectory data publishing by local suppression," *Information Sciences*, vol. 251, pp. 83–97, 2013.
 C. H. Dowker, "Boundary groups of relations," Annals of mathematics

- H6, pp. 21-24.

  Ohen, N. Mohammed, B. C. Fung, B. C. Desai, and L. Xiong
- R. Chen, N. Mehammed, B. C. Fung, B. C. Doui, and L. Xiong, "Publishing serviced draw in differential privacy," Proceedings of the VLSB Endowment, vol. 4, no. 11, pp. 1087–1999, 2011.
  1, 2-Jang, G. Corrono, C. M. Procopier, D. Servastron, and X. Xiao, "Phylopoc: Private data release via hypexian extreoxic," ACM Transac-tions on Disabilities, Systems (TOSS), vol. 42, no. 4, p. 33, v. 73.
  Tacknical report: https://pitholocom/wng/38890/infocont/2021-weslohop/ bioblysmishopherines.pdf.

#### **Abstract**



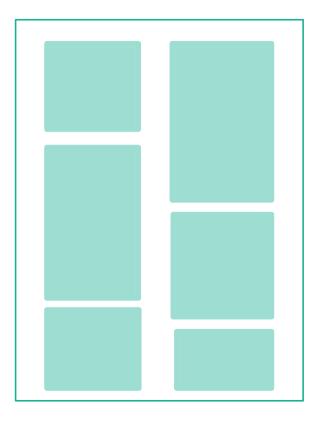


#### Introduction

Broad topic & motivation

Specif topic & open problem

Goal & research question





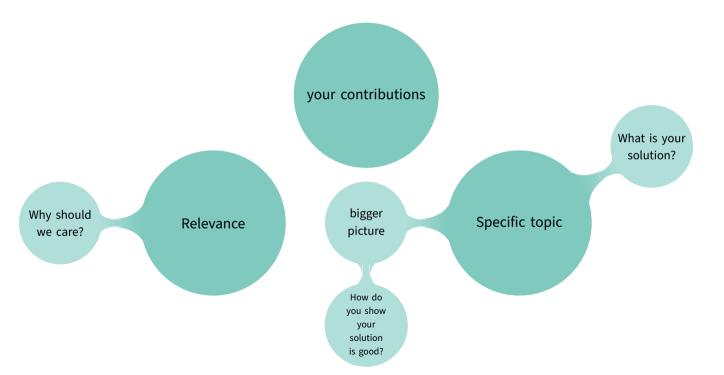
Scientific motivation & relevance

Your contributions

Reader's digest

#### Conclusion





## main part





## Writing style



Basics: Grammar, spellcheck ...

#### Scope

- ▶ Sentence ↔ statement
- ▶ Paragraph ↔ idea
- ► Section ↔ subtopic

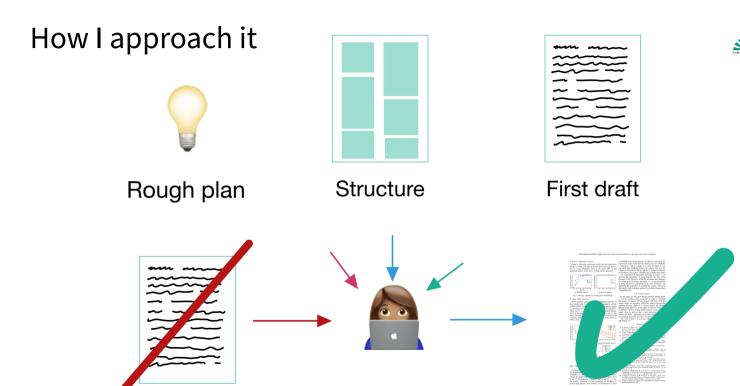
#### **KEEP IT SIMPLE!**

- Short, precise sentences
- Active > passive
- Avoid negations
- ightharpoonup Old  $\rightarrow$  new

## Plagiarism



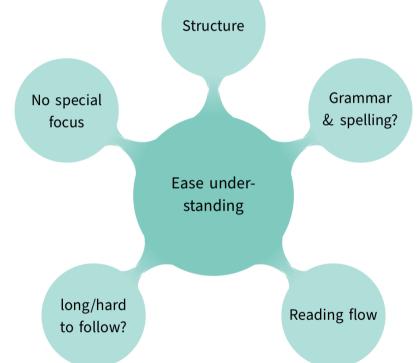
- ► Paraphrase: own words
  - Close your literature
- ► Signal:
  - Own content
  - Summary of someone else's
  - Direct quote





# Varying focus





## Further material on writing



"The Elements of Style" by Strunk and White

```
https://faculty.washington.edu/heagerty/Courses/b572/public/
StrunkWhite.pdf
```

► How to Write Papers So People Can Read Them:

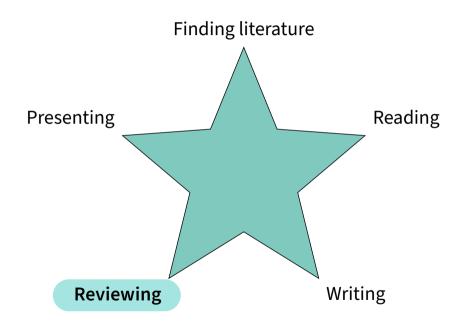
```
https://www.youtube.com/watch?v=L_6xoMjFr70
```

Plagiarism:

```
http://www.ou.edu/content/dam/integrity/docs/nine_things_you_should_know.pdf
```

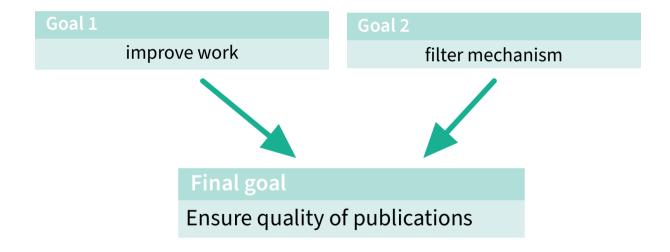
### Skills





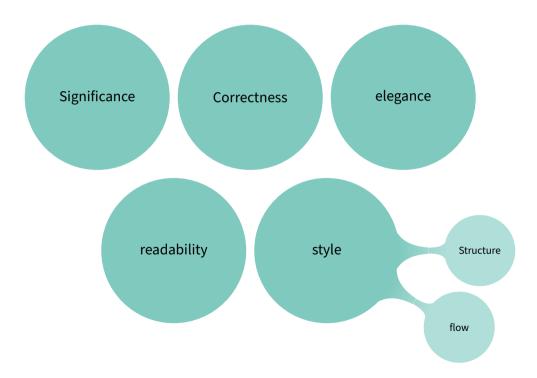
## Why peer-reviewing?





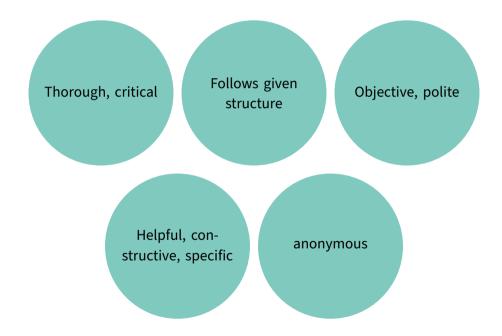
# Quality criteria





## A good review





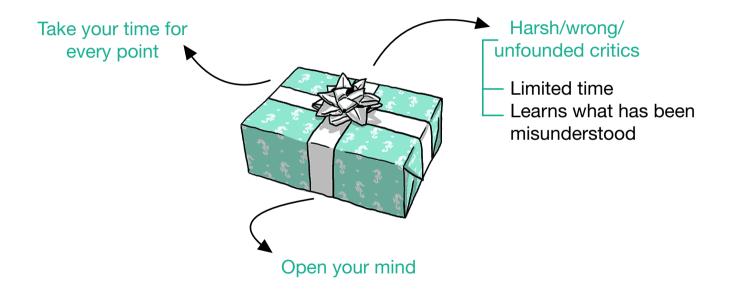
#### **Review Structure**



- 3 Strengths & 3 Weaknesses
- ► Scale 1 5: each part of the paper:
  - Structure
  - Argumentation
  - Readability
  - Language
  - Grammar
  - Formatting
  - Citation Style
- Overall ranking (accept (strong/weak), reject(strong/weak))

## Opportunity: Receiving Reviews





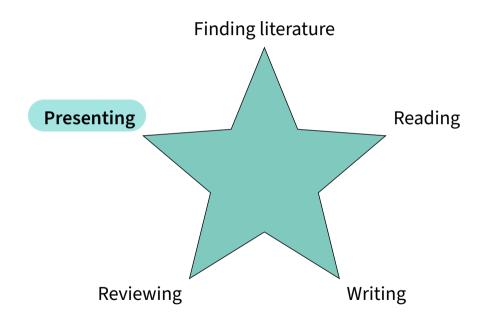
#### Further material on Reviews



- "The Task of the Referee" by Alan Jay Smith: https://www.cs.utexas.edu/users/mckinley/notes/reviewing-smith.pdf
- ► "A Guide for New Referees in Theoretical Computer Science" by Ian Parberry https://basics.sjtu.edu.cn/links/guide\_referees.pdf

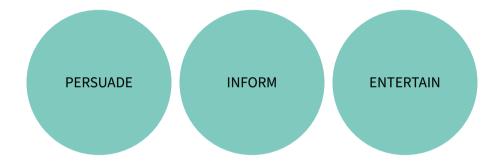
### Skills





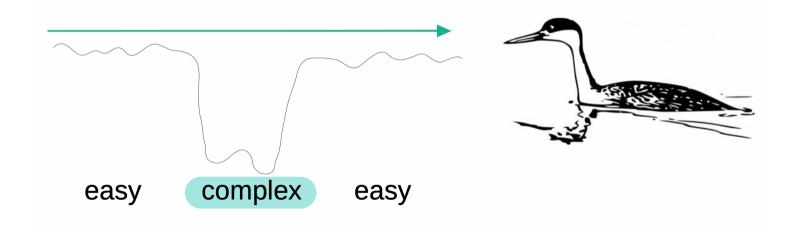
# Purpose first!





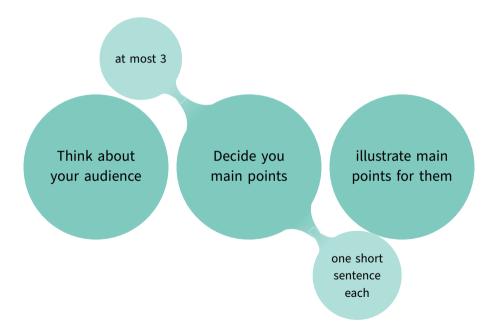
## The grebe strategy



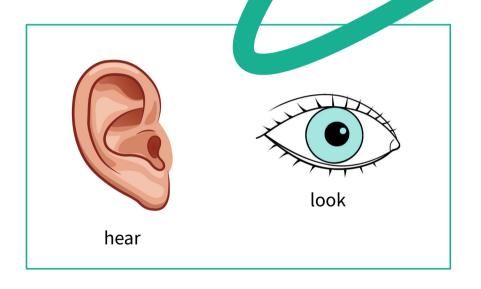


## building the presentation strategy



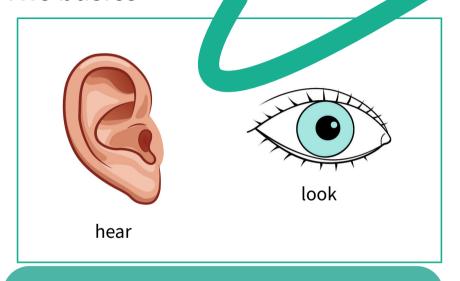










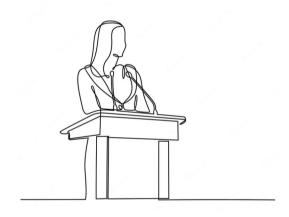




Figures ↑↑ Vs. Text ↓↓



- ► Do not read!
- ► Look to the people
- Use your body language
- Change your voice





- ► Do not read!
- ► Look to the people
- Use your body language
- Change your voice



Slow

#### Not To Do List



- ► Not signaling own/other's contributions
- ► Finish after 2/3 of the allowed time
- ► Go 1/3 over time
- Include everything all the details!
- Cover every part, but give no details at all (No depth)
- Only cover a tiny part of your work (No breadth)

## Further material on presenting



- "How to avoid death By PowerPoint" by David JP Phillips: https://www.youtube.com/watch?v=Iwpi1Lm6dFo
- "PowerSpeak" by Dorothy Leeds

### Good luck!



