

Literature Review Template (Tufte Handout)

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Introduction

- Key goal(s) of the paper

Main results

- Should note the specific results and their novelty

Key assumptions made

- Are any of these assumptions checkable from the data?
- Which of these assumptions could be relaxed?

Primary proof techniques/ math used

- Summarize and sketch only
- Anything new/ novel that hasn't been used before

Supporting/ background papers referenced

- Sort by descending relevance, chronologically e.g. (Chen, Gao, and Ren 2015) and (Charikar, Steinhardt, and Valiant 2016)
- Why was this paper referenced, should we dig further into it?
Why?

Key improvements, next steps, open problems

- Split by those that the authors have identified
- New open problems that we think of

Simulation of Results, Comment on reproducibility here

- Did the authors run any simulations to test the validity of the results?
- If so, are they reproducible? Any packages and supporting code?
List it here?
- Are there any simulations we can run in R or Python here to test the validity of these results?

References

Charikar, Moses, Jacob Steinhardt, and Gregory Valiant. 2016. “Learning from Untrusted Data.” *arXiv:1611.02315 [Cs, Math, Stat]*, November. <http://arxiv.org/abs/1611.02315>.

Chen, Mengjie, Chao Gao, and Zhao Ren. 2015. “A General Decision Theory for Huber’s ϵ -Contamination Model.” *arXiv:1511.04144 [Math, Stat]*, November. <http://arxiv.org/abs/1511.04144>.