

Lab 1. Graph ML Research Topics

Identify 3 areas (ideas) for research or application development for machine learning on graphs. Try to select ideas that you believe are interesting and that have the potential for being impactful.

For each idea write an abstract (paragraph) that includes the following:

- Identify the problem to be solved.
- Explain why this is an important problem.
- What methods have been used to solve this problem, if any.
- What is the potential impact of solving this problem
- Hypothesize how you might solve this problem.

Note: Expecting about 1-page with 3 paragraphs. No more than ½ page per abstract. This is just a start. You'll be able to update your ideas over time.

The following paper provides a review of available graph datasets and applications.

<http://graphkernels.cs.tu-dortmund.de/>

If you're interested, you can watch the Microsoft video from Simon Peyton Jones on how to write a great research paper.

<https://www.microsoft.com/en-us/research/video/how-to-write-a-great-research-paper-4/>