

# Discussion

## Research Questions

- Aim to answer the following research questions (RQ) to better understand FANG's performance under different scenarios:
  - **RQ1:** Does FANG work well with limited training data?
  - RQ2: Does FANG differentiate between fake and real news based on their contrastive engagement temporality?
  - RQ3: How effective is FANG's representation learning?

# Discussion

## RQ1: Limited Training Data

- Conducted the experiments using different sizes of the training dataset.
- Observe that consistent improvements over the baselines under both limited and sufficient data conditions.

Systems	AUC score at different training percentages				
	10%	30%	50%	70%	90%
CSI	0.6363	0.6714	0.6700	0.6887	0.6911
GCN	0.5918	0.6445	0.6797	0.6642	0.7064
FANG(-s) (without stance loss)	0.6396	0.6708	0.6773	0.7090	0.7411
<b>FANG</b>	<b>0.6683</b>	<b>0.7036</b>	<b>0.7166</b>	<b>0.7232</b>	<b>0.7518</b>

