

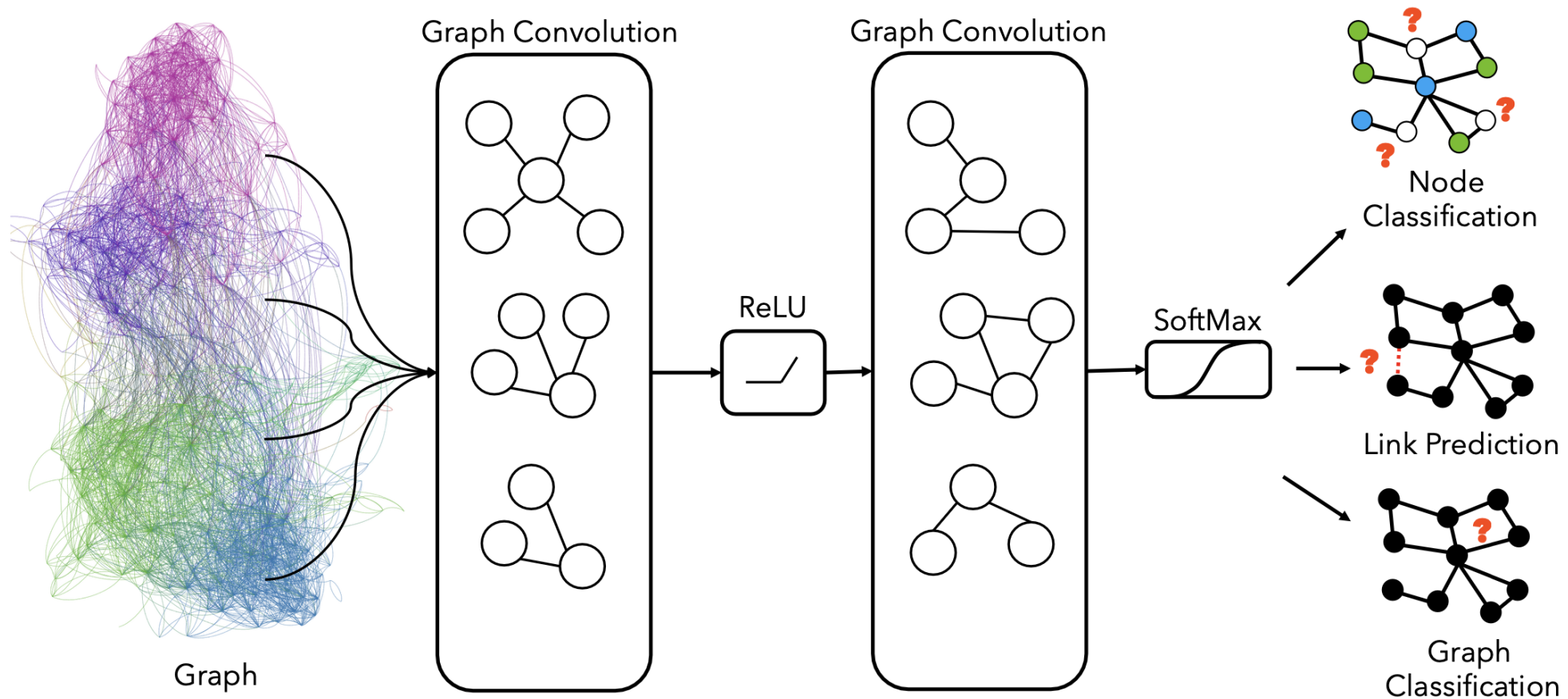
# Graph Foundation Models

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Frontiers of Computer Science, DOI: [10.1007/s11704-024-40046-0](https://doi.org/10.1007/s11704-024-40046-0)

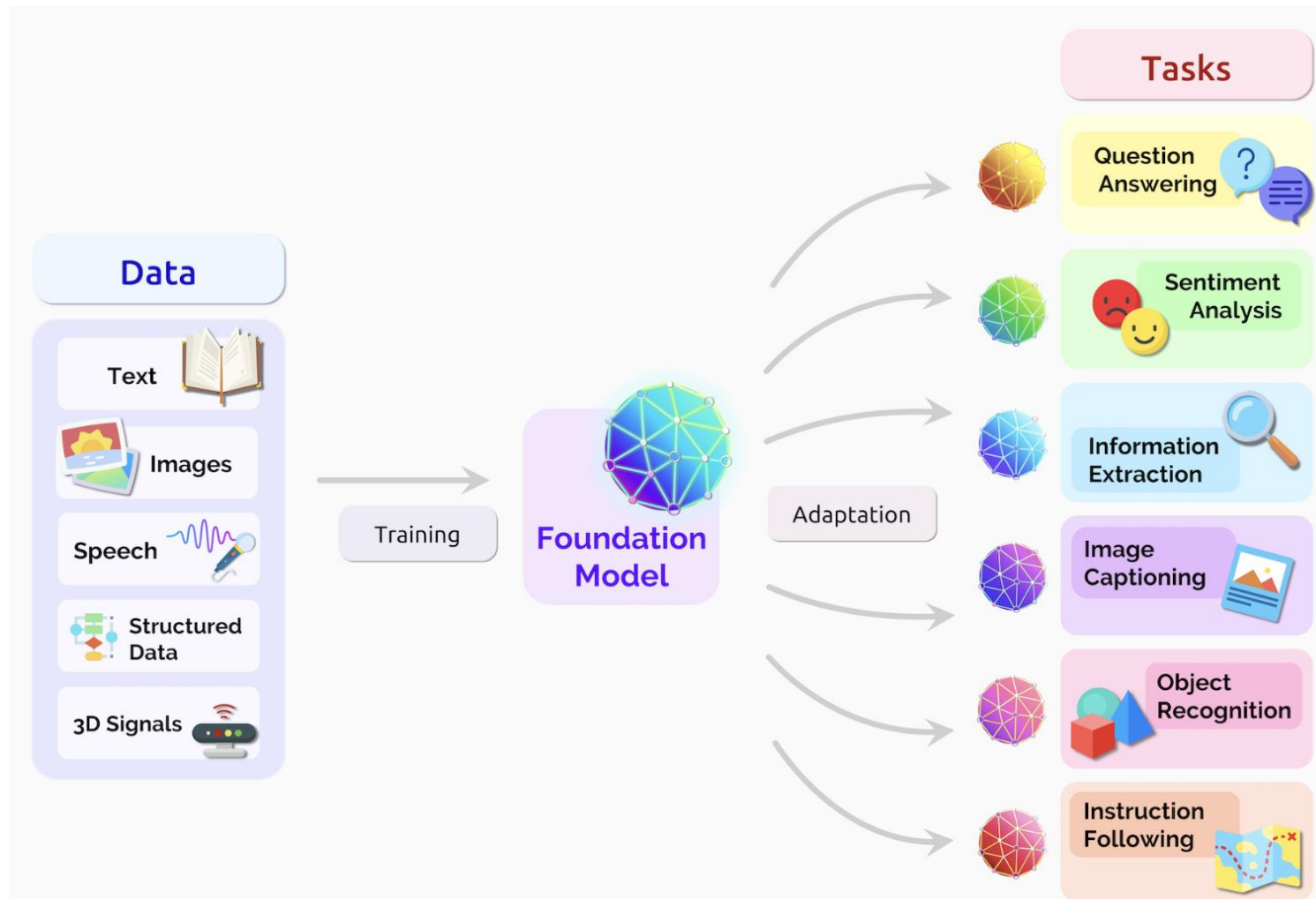
# Background

## Deep Graph Learning



# Background

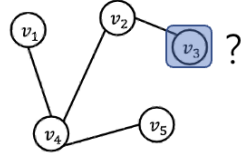
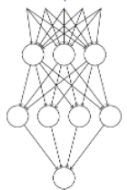
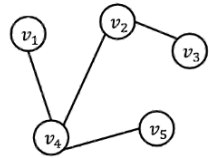
## Language Foundation Models



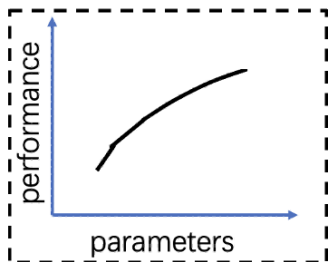
# Graph Foundation Model

## Deep Graph Learning

### End-to-End

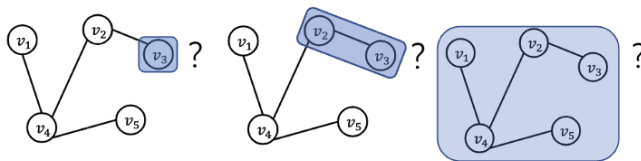
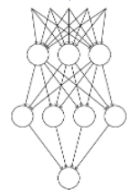
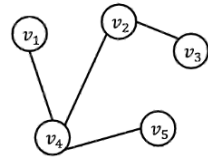


### Downstream Task

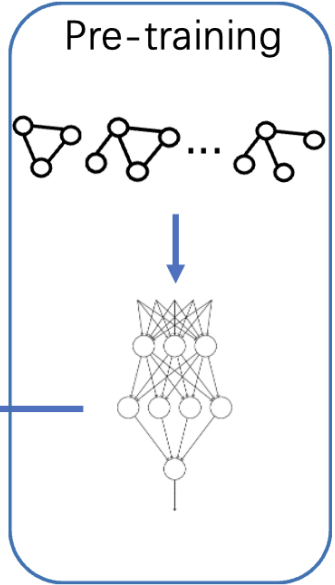
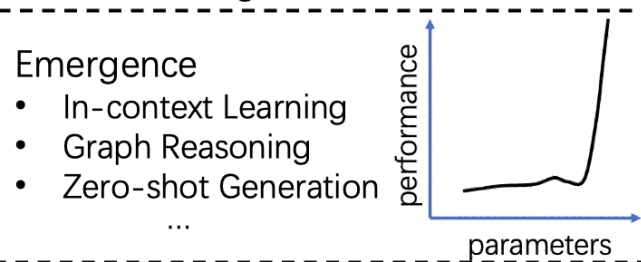


## Graph Foundation Models

### Adaptation



### Homogenization



- Definition
  - Pre-trained on broad data.
  - Can be adapted to a wide range of downstream tasks.
- Attributes
  - **Emergence**: as a foundation model scales up, it may spontaneously manifest novel capabilities.
  - **Homogenization**: model's versatility, can be deploy across diverse applications.