context-aware multi-head self-attention

▼ Research Gap

1. The difference between **model trained on individual** and **model trained on collective population**. Model granularity.
2. Previous study only consider **raw location sequence and their visits time, do not take duration and surrounding context into consideration(built-enviroment & functional land use)**(For POI/functional land use, have been discussed by Yao's work in CEUS, also in 2022)

▼ Dataset

1. Geolife
2. GC in Swiss

▼ Methodology

1. Decoder: 看不懂

▼ Findings

▼ Inspiration

1. theoritical support: The flexible structure of Deep Learning allow the intergration of different data formats.
2. LSTM have a shortage with dealing with a relative far information with the sequence length increase. Incorporating Self-Attention mechanism help imporve this situation.
3. Land use function: initially, TF-IDF; problem: fails to exploit the multi-categories information of POI
4.