

# Lin Zheng

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## Education

**Sun Yat-sen (Zhongshan) University**

*Bachelor of Engineering (Software Engineering)*

School of Data and Computer Science

**Guangzhou, China**

2017.09 – present

- Overall GPA 4.0/4.0, Ranking 4/174
- **Highlighted courses:** Matrix Analysis(99/100, ranking 1/17), Principles of Artificial Intelligence(96/100, ranking 1/123), Probability and Statistics(100/100, ranking 1/80)

## Research Interests

My research interests include machine learning and natural language processing, in particular latent variable models, structured prediction and their applications on natural language.

## Publications

- [1] **Lin Zheng**, Qinliang Su, Dinghan Shen, and Changyou Chen. Generative semantic hashing enhanced via boltzmann machines. In *Association for Computational Linguistics 2020 Conference (ACL 2020)*.

## Research Experiences

**Research Assistant**

*Sun Yat-sen (Zhongshan) University*

**Advisor: Associate Professor Qinliang Su**

2019.03 – 2020.10

- Our project mainly focused on generative semantic hashing tasks, which employ a generative model (VAE) to produce binary hash codes for documents. We proposed to enforce correlations among different bits of a hash code via Boltzmann machines such that our model can make better use of coding space and yield more effective hash codes. Our work is accepted in **ACL 2020**.
- We also worked on constructing lower-variance unbiased gradient estimators for discrete latent variable models.

**Research Assistant**

*The University of Hong Kong*

**Advisor: Assistant professor Lingpeng Kong**

2020.11 – present

- We are currently working on improving transformers for natural language processing problems.

## Selected Awards

**2019.09:** The first-grade scholarship at Sun Yat-sen University.

**2018.09:** The second-grade scholarship at Sun Yat-sen University.

## Skills

**Programming Language:** Python (including packages Pytorch, Tensorflow), C/C++, Java

**Language:** Chinese (native), English (fluent)