# Minqian Liu

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## Education

**South China University of Technology (SCUT)** **Guangzhou, China**
*Candidate for B.Eng. in Computer Science and Technology* *Sept. 2017-Jul. 2021 (Expected)*

- **Overall GPA: 3.75/4.00**
- **Core Courses:** Probability & Mathematical Statistics, Data Structures, Computer Organization & Architecture, Database System, Operating System, Numerical Methods

**University of California, Berkeley** **Berkeley, USA**
*Visiting Student in the Department of Electrical Engineering and Computer Sciences* *Jan. 2019-May 2019*

- **Overall GPA: 3.67/4.00**
- **Courses:** Discrete Mathematics and Probability Theory, Introduction to Artificial Intelligence, Efficient Algorithms and Intractable Problems

## Publications

**Dynamic Extension Nets for Few-shot Semantic Segmentation**

- Lizhao Liu*, Junyi Cao*, **Minqian Liu***, Yong Guo*, Qi Chen*(*equal contribution*), Mingkui Tan.
- In *Proceedings of the 28th ACM International Conference on Multimedia*, 2020.

**Progressive Dialogue State Tracking for Multi-domain Dialogue Systems**

- Jiahao Wang, **Minqian Liu**, Xiaojun Quan.
- To appear at *the IEEE International Conference on Acoustics, Speech and Signal Processing*, 2021.

## Research Experience

**Dynamic Extension Nets for Few-shot Semantic Segmentation**
*Advisor: Prof. Mingkui Tan, SCUT* *Oct. 2019-Jul. 2020*

- Proposed a Dynamic Extension Network that dynamically constructs and maintains a classifier for the novel class by leveraging the knowledge from the base class and the information from novel data.
- Proposed a Guided Attention Module to focus on class-relevant content in the image and a dynamic extension training algorithm to exploit the knowledge of base classes in an end-to-end manner.

**Progressive Dialogue State Tracking for Multi-domain Dialogue Systems**
*Advisor: Prof. Xiaojun Quan, Sun Yat-sen University* *Nov. 2019-Apr. 2020*

- Formalized two important observations in dialogue state tracking: accumulating state triples and adjacent state dependencies. Proposed a progressive domain-slot tracker.
- Designed experiments to evaluate the proposed method.

## Honors & Awards

- Second Prize Scholarship (Top 15% in Computer Science Department), SCUT. 2018.

## Skills

- **Language Skills**: English (Fluent), Chinese (Native)
- **Programming Skills:** Python, C/C++, PyTorch, TensorFlow, LaTex (Skilled); Java, MATLAB, R (Basic)