

# Curriculum vitae

## Xiaomeng Hu

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### EDUCATION:

**University of California San Diego, United States** September 2020-2025(Expected)  
Ph.D. Student of Mathematics Department

**University of Chinese Academy of Sciences, Beijing, China** September 2016 - July 2020  
B.S. in Mathematics and Applied Mathematics

### RESEARCH INTERESTS:

Polynomial optimization, Tensor optimization, Data sciences, Machine learning.

### PRESENTATIONS:

Invited session, SIAM Conference on Optimization June 2023  
Invited session, INFORMS Annual Meeting October 2022  
Invited seminar, UC San Diego math department 2022, 2023

### RESEARCH EXPERIENCE:

**Moment Problems With Universal Quantifiers** November 2022-present  
UC San Diego, Mathematics Department  
Advisor: Jiawang Nie, Professor, UC San Diego

**Generalized Semi-Infinite Programming** October 2021-September 2022  
UC San Diego, Mathematics Department  
*Paper: Polynomial Optimization Relaxations for Generalized Semi-Infinite Programs*  
Advisor: Jiawang Nie, Professor, UC San Diego

**Target Classification For Correlated Multi-features** November 2019-May 2020  
Academy of Mathematics and Systems Sciences, Chinese Academy of Sciences  
Advisor: Yuhong Dai, Professor, CAS

### Programming skills

MATLAB-professional

C -Advanced

Python -Intermediate