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Education

2016- **B.S. in Physics**
Peking University School of Physics, Beijing, China (advisor: Bo-Qiang Ma)
2010-2016 **Middle and High School**
Chengdu Experimental Foreign Languages School, Chengdu, Sichuan, China

Research Experiences

2019- **Giant molecular clouds with different initial density profiles**
With Hui Li and Mark Vogelsberger at MIT Kavli Institute
2018- **Pre-burst stage of gamma-ray bursts**
With Bo-Qiang Ma at Peking University School of Physics

Publications

1. **Y. Chen**, H. Li* and M. Vogelsberger, *Effects of Initial Density Profiles on Massive Star Cluster Formation in Giant Molecular Clouds*, to be submitted.
2. **Y. Chen** and B.-Q. Ma*, *Novel Pre-burst Stage of Gamma-ray Bursts from Machine Learning*, in submission.

Selected Honors

2019 **First Prize and Best Speaker**
In Xingcheng Forum at Peking University
Huabao Funding for Undergraduate Research Program
2018 **National Scholarship**
Pacemaker to Merit Student
Outstanding Award and SIAM Award
In Mathematical Contest in Modeling (Control Number 73410)
2015 **Gold Medal**
In Chinese Physics Olympiad

Talks

2019 ***Influence of initial conditions on the evolution of giant molecular clouds***
Peking University, Beijing, China
Pre-burst Stage of Gamma-ray Bursts from Machine Learning
Peking University, Beijing, China
Light Speed Variation from Machine Learning
Fudan University, Shanghai, China