



# Shiau-Jie Rau

## Curriculum vitae

Email: [cherrymow@gapp.nthu.edu.tw](mailto:cherrymow@gapp.nthu.edu.tw)

Personal Website: <https://shiaujie.github.io/>

## EDUCATION

- 2019 – **M.S. in Physics**, *National Tsing Hua University*, Hsinchu, Taiwan, GPA: 4.30/4.30.  
2015 – 2019 **B.S. in Physics**, *National Tsing Hua University*, Hsinchu, Taiwan, GPA: 4.01/4.30.  
Graduate with honor

## RESEARCH EXPERIENCE

- 2019 – **Master Student**, *National Tsing Hua University*, Hsinchu, Taiwan.  
○ Study type 1a supernovae with Professor Kuo-Chuan Pan
- 2018 **Summer Student**, *Institute of Astronomy and Astrophysics, Academia Sinica*, Taipei, Taiwan.  
○ Study PAH evolution in galaxies with Dr. Hiroyuki Hirashita
- 2016 **Summer Student**, *Institute of Physics, Academia Sinica*, Taipei, Taiwan.  
○ Simulate signal from cosmic ray  
○ Analysis data from Ge detector

## PUBLICATIONS

### Papers

- 2019 **Modelling the evolution of PAH abundance in galaxies.**  
○ With H. Hirashita and M. Murga, 2019.  
○ DOI: 10.1093/mnras/stz2532

### Others

- 2020 **Characterizing Surviving Companions After Type Ia Supernova explosions.**  
○ Poster at 2020 Physical Society of Taiwan Annual Meeting  
○ With K.C. Pan
- 2019 **Modeling the Evolution of PAH abundance in galaxies.**  
○ Oral at 2019 Astronomical Society of the Republic of China Annual Meeting  
○ With H. Hirashita
- 2019 **Charactering the surviving companion after a type Ia supernova explosion.**  
○ Poster at 2019 Astronomical Society of the Republic of China Annual Meeting  
○ With K.C. Pan

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## HONOR

- 2019 Graduate with honor from National Tsing-Hau University, Department of Physics
- 2018 Lu Tian-Hui Scholarship
- 2017 Ma Shang-Kenh Scholarship
- 2017 Outstanding Academic Achievement Award
- 2016 Outstanding Academic Achievement Award

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## OTHER EXPERIENCE

- 2020 Spring **Teaching assistant**, *General Physics B II*.
- 2020 Spring **Teaching student in challenge**, *Quantum Mechanics*.
- 2019 Fall **Teaching student in challenge**, *Quantum Mechanics*.
- 2018 Fall **Teaching assistant**, *Theoretical Mechanics*.
- 2018 Spring **Teaching student in challenge**, *Applied Math*.

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