

# Shiau-Jie Rau

## Curriculum vitae



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## 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 Ia 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 students with disabilities**, *Quantum Mechanics*.
- 2019 Fall **Teaching students with disabilities**, *Quantum Mechanics*.
- 2018 Fall **Teaching assistant**, *Theoretical Mechanics*.
- 2018 Spring **Teaching students with disabilities**, *Applied Math and Experimental Physics*.

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

