

# Yu-Ting Shen

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## EXPERIENCE

### Organisation Européenne pour la Recherche Nucléaire (CERN) | Physicist

2015 - 2018 | Geneva, Switzerland

- Analysed proton-proton collision data collected by ATLAS detector.
- Developed a new object-oriented programming framework using C++ to increase the performance and accuracy of the real election efficiency measurement.
- Used Python with PyROOT to perform data analysis and automate the visualization of results.

### University of Oklahoma | Graduate Research Assistant

2011 - 2018 | Norman, Oklahoma

- Teaching assistant for many courses. Helped professors to grade homework, proctor exams, and compile student achievement statistics.
- Dedicated to the search of supersymmetric particles. Implemented various statistical methods using C++ and python to analyse data.

### Academia Sinica | Research Assistant

2009 - 2011 | Taipei, Taiwan

- Used C++ with GEANT4 package to simulate the ambient background radiation.
- Helped the Tsinghua University to setup the China Jinping Underground Laboratory.

### Taiwan Semiconductor Manufacturing Company, LTD. (TSMC) | SPICE R&D engineer

2006 - 2009 | Hsinchu, Taiwan

- High-voltage SPICE model development including probe station automation, SPICE modeling, and customer support.
- Cross departments model SPEC discussion, schedule arrangement, raw data measurement, model parameters extraction, complete model establishment, model accuracy validation, and model documentation.

## EDUCATION

### University of Oklahoma | Ph.D. in Physics | Cum. GPA: 3.47 / 4.00

2011 - 2018 | Norman, OK

- Dissertation link

### National Taiwan University | M.S. in Physics | Cum. GPA: 3.86 / 4.00

2003 - 2006 | Taipei, Taiwan

- Thesis link
- Graduate student thesis Awards, The Physical Society of Taiwan, 2006

### Chung Yuan Christian University | B.S. in Physics | Cum. GPA: 3.53 / 4.00

1998 - 2002 | Chung Li, Taiwan

- Certificate of Holistic Achievement Award, 1998 - 1999, 1999 - 2000, and 2000 - 2001
- Certification of Academic Achievement Award, 2000 - 2001

## SKILLS

Mac OS/Linux • Microsoft Office/Apple Keynote/Pages • C/C++ • object-oriented programming • Shell script • Python/Matplotlib/Pandas • HTML •  $\text{\LaTeX}$  • SQL • Git • Vim • Statistics • Data analysis • cross department communication • teamwork

## LEADERSHIP

President of Taiwanese Student Association (TSA) at the University of Oklahoma

2012 - 2013

- Organized several TSA events in campus and participated in the joint events with the Taiwanese community in Oklahoma.
- Led TSA to win the first place of the Eve of Nations at the University of Oklahoma.