

## Ue-Li Pen

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### I. Education

- 1996      Ph.D. in Astrophysics  
            Princeton University
- 1991      Master of Science,  
            National Chiao-Tong University
- 1989      Bachelor of Science  
            National Taiwan University

### II. Academic and Other Employment History

- 2021-Present    Director  
                  Academia Sinica Institute of Astronomy & Astrophysics
- 2011–Present    Professor  
                  Canadian Institute for Theoretical Astrophysics
- 2016–2019      Director  
                  Canadian Institute for Theoretical Astrophysics
- 2003–2011      Associate Professor  
                  Canadian Institute for Theoretical Astrophysics
- 1998–2003      Assistant Professor  
                  Canadian Institute for Theoretical Astrophysics
- 1995–1998      Junior Fellow  
                  Harvard University

### III. Honours And Awards

- 2021      Lancelot Berkeley Prize
- 2020      Governor General's Innovation Award  
            *as part of CHIME Telescope team*
- 2019      2020 Breakthrough Prize in Fundamental Physics  
            *as part of Event Horizon Telescope team*
- 2018      Humboldt Prize

- 2018                Simons Investigator Award
- 1995–1998        Harvard Junior Fellow
- 1994–1995        Princeton Porter Ogden Jacobus Fellowship

#### **IV. Supervisory and Mentoring History**

##### ***Teaching Activities***

- 1998-Present     Faculty, University of Toronto, CITA, cross appointments to Dept of Physics and Dept of Astronomy and Astrophysics, regularly taught courses in three departments. Minimal current obligations.
- 2020-2021        Instructor, PHY478: Explore Pulsar Science by Data Analysis, University of Toronto

##### ***Supervisory Experience***

- 2007–Present    16 Undergraduate Summer Students / 7 Masters Students / 18 PhD Students / 18 Postdoctoral Fellows

#### **V. Organization of Scientific Meetings**

- 2016– 2019       Annual Scintillometry Workshop  
(Bonn/Germany 2016; Toronto/Canada 2017; Shanghai/China 2018; Bonn/Germany 2019)
- 2019               Galaxy Angular Momentum alignment, SOC, TDLI, Shanghai/China
- 2018               2018 Global Radio Scintillometry Astrophysics 2018/ 48 Participants/ Chair of the Science Organising Committee/ China

#### **VI. Institutional Responsibilities**

- 2016 – 2019      Interim director  
Canadian Institute for Theoretical Astrophysics, University of Toronto
- 2009 – 2016      Associate Director  
Canadian Institute for Theoretical Astrophysics, University of Toronto
- 1998 – 2009      Chair of CITA Computing Committee  
Canadian Institute for Theoretical Astrophysics, University of Toronto

#### **VII. Major Collaborations**

- 2019 – present    Huawei Technologies Canada,  
Project Title: *Developing Real-time Coordination Pipelines in the Era of Time-Domain Radio Astronomy; Smart Handling of Big Data*
- 2013– present    National Research Council  
Project Title: *Canadian Very Long Baseline Interferometer Infrastructure (VLBI)*

- 2013 – present Thoth Technology Inc.,  
Project Title: *Real time VLBI; Smart Handling of Big Data*
- 2013 – present AMD Radeon Technology Group  
Project Title: *Smart Handling of Big Data*
- 2013 – present CHIME, CHIME-FRB, CHIME-VLBI
- 2012 – present Pulsar Scintillometry
- 2011 – 2018 CAASTRO  
(ARC Centre of Excellence for All-sky Astrophysics), Australia
- 2015 – 2018 TianNu collaboration:  
implemented world's large N-body simulation on then fastest supercomputer,  
TianHe-2, info at <https://www.cita.utoronto.ca/~haoran/thnu/movie.html>