

EDUCATION

B.S. Agronomy, National Taiwan University, Taiwan **February 2017**
M.S. Statistics, National Tsing Hua University, Taiwan

WORK EXPERIENCE

Research Assistant, Institute of Statistical Science, Academia Sinica, Taiwan **2014/09–Present**

- Conduct an independent research under the supervision of Dr. Frederick Kin Hing Phoa
- Research Topic 1: The structure of good high-order-fraction Quaternary-code design under generalized minimum aberration criterion. (2014/09 – 2015/08)
- Research Topic 2: A generalization to Quaternary-code designs and a unification with regular designs via generating matrix partition. (2015/09 – 2016/02)
- Research Topic 3: A new class of Quaternary-code designs constructed by column deletion. (2016/03 – 2017/12)

Tutor in Mathematics for High School Student, Taiwan **2013/09–2015/07**

- Part-time (hourly based) tutoring to Grades 10-12 high school students

ACADEMIC AND RESEARCH AWARDS

Bachelor Student Scholarship, Academia Sinica, Taiwan **2014/09–2018/01**
Bachelor Research Scholarship, Ministry of Science and Technology, Taiwan (MOST-104-2815-C-001-001-M01) **2015/07–2016/02**

PUBLICATIONS

Emily Chao-Hui Huang and Frederick Kin Hing Phoa (2015+) **A new class of Quaternary code designs with good wordlength patterns**, submitted to *Statistica Sinica*.
Emily Chao-Hui Huang and Frederick Kin Hing Phoa (2015+) **Generating Matrix Partition (GMP): A generalization to Quaternary code designs and a unification with regular designs**, under preparation.

CONFERENCE TALK

[2015/06/27] **A New Class of Quaternary Code Designs with Good Wordlength Patterns**. The 24th South Taiwan Statistics Conference. Changhua, Taiwan ROC.

SKILLS AND ACTIVITIES

Community Service: Volunteer in tutor for disadvantaged student groups (2010/09 – 2011/08),
Volunteer in rest home (2009/09 – 2010/09)

Programming Skills: R, LaTeX, C, Matlab, Python

Language: English, Mandarin (fluent), Japanese (basic)