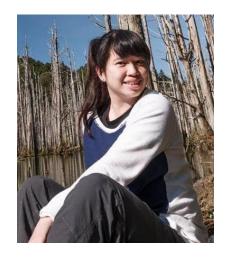# CURRICULUM VITAE
Li-An Chu 朱麗安

AFFILIATION

Independent Postdoc Scholar,
Brain Research Center, National Tsing Hua University
(清華大學腦科學中心獨立博士後研究員)

FIELD OF SPECIALITY

Bioimaging, Animal Behavior, Brain Neuroscience,
Interdisciplinary Work.

EDUCATION

2009-2016   Ph.D.   Biotechnology Institute, National Tsing Hua University, Taiwan
指導教授：江安世博士
研究方向與專長：果蠅行為操控平台設計製造，果蠅神經網路分析
論文題目：果蠅濕度感測神經系統

2012-2013   Visiting Scientist Cold Spring Harbor Laboratory, New York
指導教授: Dr. Glenn Turner
研究方向：果蠅電生理實驗

2007-2009   Master   Biotechnology Institute, National Tsing Hua University, Taiwan
指導教授：江安世博士
論文題目：果蠅觸角神經叢內嗅覺運算模式之研究

2003-2007   Bachelor   Power Mechanical Engineering Department, National Tsing Hua University, Taiwan
指導教授：方維倫博士
專題研究：微流道晶片設計

HONOR

2017   EMBL Advanced Training Centre Corporate Partnership Programme Fellowship

2017   Ministry of Science Technology Dept, Independent Postdoc Grant and Fellowship (3 years)

2017   Distinguish Postdoc Fellowship in Academia Sinica (2 years)

2017   Hope Fellow of Japan Society of the promotion of science

2016   Membership of The Phi Tau Phi Scholastic Honor Society

2016   Outstanding women in Science award

2014   Best Presentation Award, Life Science Student Activity Fair of Tsing Hua University and Osaka University

2014   Shen-Ju Chen outstanding paper award

2014   Mu-Ming Poo neuroscience paper award

2013   First Place of Instrument Technology Innovation Competition

2011   Graduate Student Study Abroad Program (1year)

2011   Third place of National innovation award, Student group

2010   EMBL travel grant

2010   Outstanding Students Conference Travel Grant from Foundation for the advancement of outstanding Scholarship

PUBLICATION

1. Lin YY, Wu MC, Hsiao PY, **Chu LA**, Yang MM, Fu CC, Chiang AS (2015) Three-wavelength light control of freely moving Drosophila Melanogaster for less perturbation and efficient social-behavioral studies. **Biomed Opt Express. (Impact factor : 3.497)**

2. Ming-Chin Wu*, **Li-An Chu***, Po-Yen Hsiao*, Yen-Yin Lin, Tsai-Feng Fu, Chen-Chieh Chi, An-Kuo Hong, Tsung-Ho Liu, Chien-Chung Fu, & Ann-Shyn Chiang (2014) Optogenetic control of selective neural activity in multiple freely moving Drosophila adults. **PNAS (Impact factor : 10)** (*: Co-first authors)

3. Hui-Hao Lin, **Li-An Chu**, Tsai-Feng Fu, Barry J. Dickson, Ann-Shyn Chiang (2013) Parallel Neural Pathways Mediate CO_2 Avoidance Responses in Drosophila. **Science (Impact factor : 30)**

4. C-T Hong, **L-A Chu**, W-C Lai, A-S Chiang and W-L Fang (2011) Implementation of a New Capacitive Touch Sensor Using the Nanoporous Anodic Aluminum Oxide (np-AAO)

Structure. **IEEE Sensor Journal (Impact factor: 1.852)**

PATENT

1. US:
   DETECTING PLATFORM FOR HOLDING A TINY INSECT (Patent number: US8,985, 056 B2)

2. Taiwan:
   SYSTEM FOR CLASSIFYING TINY INSECTS (Patent number: I442884)
   DETECTING PLATFORM FOR HOLDING TINY INSECTS (Patent number: I428185)

3. China:
   TINY INSECT DETECTION (Patent number: CN 103027010 B)

International Conference

Oral Presentation: 2017 HOPE meetings with Nobel Laureates, Tokyo, Japan

2014 Life Science Student Activity Fair of Tsing Hua University and Osaka University

Poster Presentation: 2010 ESF-EMBO Symposium: Functional Neurobiology in Minibrains, EMBO, Heiderberg, Germany. 2011 Neuroscience, Society for Neuroscience, Washington, USA.

TEACHING EXPERIENCE

2009-2016
果蠅神經解剖學-功能性神經造影技術（3 hrs/semester）
神經網路與行為-動物嗅覺系統 (3 hrs/semester)

2014-2015
Advanced Techniques in Biology and Medicine-Bioimaging (3hrs/semester, offered in English)