

## Polly Yingshan Hsu

Duke University  
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### Education

2007-2013 Ph.D. Plant Biology, University of California, Davis, CA  
2004-2006 M.S. Genetics, National Yang-Ming University, Taipei, Taiwan  
2000-2004 B.S. Botany, National Taiwan University, Taipei, Taiwan

### Research Positions

Aug 2013- Postdoctoral Associate. Duke University, Durham, NC. Advisor: Philip Benfey.  
2007-2013 Graduate Researcher. University of California, Davis, CA. Advisor: Stacey Harmer.  
2006-2007 Research Assistant. National Taiwan University, Taipei, Taiwan. Advisor: Chun-Neng Wang.  
2004-2006 Graduate Researcher. Academia Sinica, Taipei, Taiwan. Advisor: Yi-Fan Tsay.

### Publication

6. **Polly Yingshan Hsu** and Stacey L. Harmer. "Global profiling of the circadian transcriptome using microarrays." *Methods in Molecular Biology*. (2014) PMID: 24792043.
5. **Polly Yingshan Hsu** and Stacey L. Harmer. "Wheels within wheels: the plant circadian system." *Trends in Plant Science*. (2014) PMID: 24373845. \**Top 10 articles in 2014 in TIPS*
4. **Polly Yingshan Hsu**, Upendra K. Devisetty and Stacey L. Harmer. "Accurate timekeeping is controlled by a cycling activator in Arabidopsis." *eLife*. (2013) PMID: 23638299.  
\* *Editors' choice*  
\* *F1000 Prime Recommended Article*
3. **Polly Yingshan Hsu** and Stacey L. Harmer. "Circadian phase has profound effects on differential expression analysis." *PLoS ONE*. (2012) PMID: 23185460.
2. Reetika Rawat, Nozomu Takahashi\*, **Polly Yingshan Hsu**\*, Matthew A. Jones, Jacob Schwartz, Michelle R. Salemi, Brett S. Phinney, and Stacey L. Harmer. "REVEILLE8 and PSEUDO-REPONSE REGULATOR5 form a negative feedback loop within the Arabidopsis circadian clock" *PLoS Genetics*. (2011) PMID: 21483796. \*contributed equally
1. **Ying-Shan Hsu**, Shiang-Jiun Chen, Chin-Mei Lee, and Ling-Long Kuo-Huang. "Anatomical characteristics of the secondary phloem in branches of *Zelkova serrata* Makino" *Bot. Bull. Acad. Sin.* (2005) 46:143-149 <http://ejournal.sinica.edu.tw/bbas/content/2005/2/Bot462-07.pdf>

### Honors and Awards

2016-2018 USDA NIFA Postdoctoral Fellowship (\$145,668)  
2015 Plant Proteomics Workshop Travel Award, Madison, WI (\$800)  
2013 Best oral presentation, Western section of ASPB, Davis, CA (\$250)  
2012 Asian-Pacific Developmental Biology Conference Travel Fellowship, Taiwan (\$500)  
2012 Elsie Taylor Stocking Travel Fellowship, UC Davis (\$1200)

- 2011 Summer Institute in Statistical Genetics, Tuition and Travel Scholarship, Seattle, WA (\$1200)
- 2009 Elsie Taylor Stocking Research Fellowship, UC Davis (\$3500)
- 2007-2009 Taiwan Merit Scholarship (\$60000)
- 2006 Excellent Thesis Award in NYMU, Taiwan
- 2005 Albert Ly-young Shen Memorial Medical Scholarship, Taiwan
- 2003 Research Creativity Award/Scholarship, National Science Council, Taiwan (\$8000)
- 2003 Excellent Poster in R.O.C. Microscope Symposia, Taiwan
- 2002- 2003 Presidential Award at NTU, Taiwan (Top 5% of the class)

### **Conference Oral Presentation**

- 2016 Gordon Research Seminar, Holderness, NH
- 2016 Plant and Animal Genome Conference, San Diego, CA
- 2013 Western section of ASPB, Davis, CA (best oral presentation)
- 2012 American Society of Plant Biology, Austin, TX
- 2010 NAIST International Student Workshop, Nara, Japan

### **Conference Poster Presentation**

- 2016 Gordon Research Conference, Holderness, NH
- 2015 American Society of Plant Biology, Minneapolis, MN
- 2015 Plant Proteomics Workshop, Madison, WI
- 2015 EMBO Protein Synthesis Meeting, Heidelberg, Germany
- 2012 International Conference on Systems Biology, Toronto, Canada
- 2012 Asian-Pacific Developmental Biology Conference, Taipei, Taiwan
- 2012 American Society of Plant Biology, Austin, TX
- 2005 American Society of Plant Biology, Seattle, WA

### **Teaching Experience**

- Winter 2013 Teaching Assistant for MCB160L (Genetics Laboratory), UC Davis
- July 2011 Teaching Assistant for Frontiers and Techniques in Plant Science, Cold Spring Harbor Laboratory
- Spring 2011 Teaching Assistant for PLB113 (Plant Molecular and Cellular Biology), UC Davis (student evaluation: 4.54 out of 5)
- Winter 2009 Teaching Assistant for PLB112 (Plant Growth and Development), UC Davis (student evaluation: 4.35 out of 5)

### **Statistics and Computing Training**

- 2014 Next Generation Data Analysis Workshop, UC Riverside
- 2013 Computing for Data Analysis, Coursea
- 2011 Next-Generation Sequencing Analysis Course, UC Davis
- 2011 Summer Institute in Statistical Genetics (Bayesian Methods for Genetics/ Gene Expression Profiling), Seattle, WA
- 2010-2011 R club, informal workshop, UC Davis
- ECS124, Bioinformatics, UC Davis
- ECS030, Intro. Programming and Problem Solving (C language, Unix), UC Davis
- STA108, Regression Analysis, UC Davis
- STA130A, Brief Math Statistics, UC Davis

2010 STA130B, Brief Math Statistics, UC Davis  
Computational Approaches to Analyzing Microarray Data Workshop, BTCL, Madison,  
WI

**Professional Activities**

**Journal Reviewer** Molecular systems biology  
Current Biology  
New Phytologist

**Seminar Committee** UC Davis, Plant Biology Program, 2009-2010