

Curriculum Vitae
Dwueng-Chwuan Jhwueng

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Dept. of Statistics
Feng-Chia University, Taichung Taiwan

EDUCATION:

Indiana University Bloomington USA

Ph.D. from Mathematics (Statistics option) Sep. 2010

National Cheng-Chi University

B.A., mathematics, June 2003

EMPLOYMENT:

Feb. 2016 – present Associate Professor. Dept. of Statistics, Feng-Chia University, Taichung Taiwan

Feb. 2012 – Jan. 2016 Assistant Professor. Dept. of Statistics, Feng-Chia University, Taichung Taiwan

Oct. 2010 – Jan. 2012. Postdoc, National Institute of Mathematical and Biological Synthesis, Knoxville, TN, USA

RESEARCH: I address questions in evolutionary biology through development, implementation, and application of new phylogenetic comparative methods.

GRANTS/AWARDS:

2016	MOST Taiwan: Study trait evolution on phylogenetic networks: Brownian motion and Ornstein-Uhlenbeck process	USD\$15800
2015	MOST Taiwan: Parameter estimation in phylogenetic comparative method	USD\$15436
2014	MOST Taiwan: Taxon sampling in phylogenetic comparative method	USD\$15633
2013	MOST Taiwan: Statistical modeling for phylogenetic comparative method	USD\$14933
2012	NSC Taiwan: Investigating the performance of AIC in selecting the phylogenetic models	USD\$16866

This is in addition to several grants and fellowships dating from before I started my faculty job: NIMBioS postdoctoral fellowship, Graduate Assistant Scholarship Indiana University, Fellowship of Studying Abroad Ministry of Education, Taiwan.

PUBLICATIONS:

1. Jhwueng DC and Maroulas V (2016) Adaptive trait evolution in random environment. *Journal of Applied Statistics*. 43(12): 2310-2324.
2. Jhwueng DC, Huzurbarzur SV, O'Meara BC and Liu L (2014) Investigating the performance of AIC in selecting phylogenetic models. [Statistical Application in Genetics and Molecular Biology](#) 13(4): 459-475.
3. Jhwueng DC and Maroulas V (2014) Phylogenetic Ornstein-Uhlenbeck regression curves. [Statistics & Probability Letters](#) 89:110-117.

4. Jhwueng DC (2013) Assessing the goodness of fit of phylogenetic comparative methods: a meta-analysis and simulation study. [PLOS ONE](#) 8(6): e67001.
5. Beaulieu JM, Jhwueng DC, Boettiger C, and O'Meara BC (2012) Modeling stabilizing selection: expanding the Ornstein-Uhlenbeck model of adaptive evolution. [Evolution](#) 66: 2369-2383.
6. Gilman RT, Nuismer SL and Jhwueng DC (2012) Coevolution in multidimensional trait space favors escape from parasites and pathogens. [Nature](#) 483:328-330.

TEACHING EXPERIENCE:

Statistics for Economic and Business, BUSINESS, Fall 2012, 2015-6, Spring 2012-3, Spring 2016
 Probability Theory, STAT, Fall 2012-6, Spring 2013-6
 Advanced Probability Theory, STAT. Fall 2014-6
 Statistical Inference, STAT, Spring 2014-6
 Statistical software PASW, STAT. Spring 2012

SERVICE:

FCU AACSB SEED teacher.
 Reviewer for *Journal of nonparametric*.

MENTORING, GRAD STUDENT ADVISEES:

Li-Yi Wang, Statistics, 2013
 Peter Tseng, Statistics, 2013
 Wei-Ling Liu, Statistics, 2014
 You-Lun Tsai, Statistics, 2016
 Wei-Kai Huang, Statistics, 2016
 Ya-Tang Yang, Statistics, 2016
 Sharlene Lai, Statistics, 2016
 Sheng-Liang Yea, Statistics, 2016
 Tien-Chieh Chuang, Statistics, 2016

SOFTWARE:

BMhyd: Phylogenetic comparative method for hybridization.

PRESENTATIONS:

Non-Gaussian trait evolution on Phylogenetic Tree. The 25th South Taiwan Statistics Conference and 2016 Chinese Institute of Statistics and Probability Annual Meeting. National Sun Yet-Sen University Education, Kaohsiung Taiwan June 2016.
 Trait Evolution on phylogenetic network. International Symposium Evolutionary Genetics and Bioinformatics 2015. Academia Sinica, Taipei Taiwan Nov. 2015. (poster)
 Adaptive trait evolution in random environment. The 24th South Taiwan Statistics Conference and 2015 Chinese Institute of Statistics and Probability Annual Meeting. National Changhua University Education, Changhua Taiwan June 2015.

- Phylogenetic Ornstein-Uhlenbeck regression curves. The 3rd Mathematical Statistics Asia Pacific Rim Meeting, National Taiwan University, Taipei, Taiwan. July 2014.
- Investigating the performance of AIC and related criteria in selecting phylogenetic models. Graduate Institute of Statistics, National Central University. Jhongli, Taiwan. Dec. 2013.
- On selecting the substitution models and modeling trait evolution with Gaussian process. Department of Statistics, National Cheng Kung University. Tainan, Taiwan. March 2013.
- Modeling stabilizing selection: expanding the Ornstein-Uhlenbeck model of adaptive evolution. SMB2012: The Society for Mathematical Biology Annual Meeting and Conference. Knoxville, TN USA. July 2012. (poster)
- Modeling phylogenetic comparative methods with hybridization. WYRMB: Workshop for Young Researchers in Mathematical Biology. Mathematical Bioscience Institute, Columbus OH USA. Aug. 2011. (poster)
- Some problems in phylogenetic comparative methods. Invited talks, Taiwan. March 2011.
- A non-normal multivariate distribution of phylogenetic tree dependency. GSPC5: The 5th Annual Graduate Student Probability Conference. Georgia Tech School of Mathematics, Atlanta GA USA. Apr. 2011.
- Modeling phylogenetic comparative methods with hybridization. NIMBioS: Interdisciplinary Seminar, National Institute of Mathematics and Biological Synthesis, Knoxville TN USA. Jan. 2011.
- Phylogenetics comparative methods. Probability Seminar Indiana University. Bloomington IN. Apr. 2009.
- Model selection for phylogenetic comparative methods under Univariate Data. The 2nd Graduate Student Probability Conference. University of Wisconsin, Madison WI USA. May 2008.
- Univariate data analysis in phylogenetic comparative methods. Midwest Biopharmaceutical Statistics Workshop. Ball State University, Muncie IN USA. May 2008. (poster)