

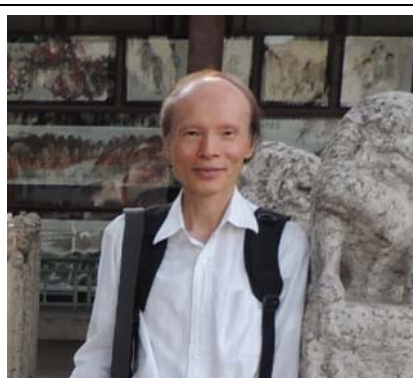
## Chang-Fu Hsieh

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### Education

Ph.D. (Botany) National Taiwan University, Taipei, Taiwan (1981)

M.S. (Botany) National Taiwan University, Taipei, Taiwan (1973)

B.S. (Biology) Tunghai Taiwan University, Taichung, Taiwan (1969)

### Academic Experience

Adjunct Professor of Institute of Ecology and Evolutionary Biology, NTU (2013-)

Professor of Institute of Ecology and Evolutionary Biology, NTU (2003-2013)

Director of Institute of Ecology and Evolutionary Biology, NTU (2003-2006)

Professor of Department of Botany, NTU (1995-2003)

Associate Professor of Department of Botany, NTU (1982-1995)

Instructor of Department of Botany, NTU (1974-1982)

Adjunct Associate Professor of School of Pharmacy, National Defense Medical Center

Adjunct Associate Professor of Department of Biology, Tunghai University

### Membership & Professional Activities

Editor-in-Chief, *Taiwania* (2017- )

Associate Editor, *Taiwania* (2009-2016)

Editor-in-Chief, *Taiwania* (2004-2008)

Associate Editor, *Taiwania* (2003-2007)

Editor, *Chinese Journal of Ecology*

Executive Editor, *Flora of Taiwan*, Vols 1-6 (1993-2003)

Collaborative Project Director, Taiwan e-Learning and Digital Archives Program:  
Botanical collections (2002-2007)

Collaborative Project Director, Digitization of Historic Museum Collections of Taiwan  
Deposited in Foreign Countries (2008-2012)

Chairman, Taiwan Biodiversity Association (2007-2012)

### Courses offered

General Botany, General Biology, Plant Taxonomy, Plant Taxonomy LAB, Numerical Taxonomy, Grasses, Medicinal Plants, Phytogeography, Numerical Methods in Community Ecology, Numerical Methods in Community Ecology LAB, The Flora and Vegetation of Taiwan, The Flora and Vegetation of Taiwan Lab., Functional Ecology

## Research Interests

Biodiversity of Taiwan

Long-term ecological studies in Forest Dynamics Plots

Digitization of plant specimens and historical botanical literature of Taiwan

Vegetation classification and mapping of Taiwan

Impacts of climate change on biodiversity (from species to ecosystem): vulnerability assessment and recovery

## Current Service

Editor-in-Chief: **Taiwania** (ISSN: 0372-333X)

Co-teaching: Plant Taxonomy and Functional Ecology

Website for Plants of Taiwan: Plant names, Specimens and Botanical eBooks, <http://tai2.ntu.edu.tw> (update: 2014-06-20), The Herbarium of the National Taiwan University (TAI). 2012.

Climate Change and Biodiversity Recovery Project

Director of The Association for the Conservation of Biodiversity of Taiwan

Director of Taiwan Academy of Ecology

## Selected Publications

Joseph A. LaManna, Scott A. Mangan, Alfonso Alonso, Norman A. Bourg, Warren Y. Brockelman, Sarayudh Bunyavejchewin, Li-Wan Chang, Jyh-Min Chiang, George B. Chuyong, Keith Clay, Richard Condit, Susan Cordell, Stuart J. Davies, Tucker J. Furniss, Christian P. Giardina, I. A. U. Nimal Gunatilleke, C. V. Savitri Gunatilleke, Fangliang He, Robert W. Howe, Stephen P. Hubbell, Chang-Fu Hsieh, Faith M. Inman-Narahari, David Janík, Daniel J. Johnson, David Kenfack, Lisa Korte, Kamil Král, Andrew J. Larson, James A. Lutz, Sean M. McMahon, William J. McShea, Hervé R. Memiaghe, Anuttara Nathalang, Vojtech Novotny, Perry S. Ong, David A. Orwig, Rebecca Ostertag, Geoffrey G. Parker, Richard P. Phillips, Lawren Sack, I-Fang Sun, J. Sebastián Tello, Duncan W. Thomas, Benjamin L. Turner, Dilys M. Vela Díaz, Tomás Vrska, George D. Weiblen, Amy Wolf, Sandra Yap and Jonathan A. Myers. 2017. Plant diversity increases with the strength of negative density dependence at the global scale. *Science* 356 (6345), 1389-1392. DOI: 10.1126/science.aam5678

Weng, Chi-Yu, Kuoh-Cheng Yang, Chang-Fu Hsieh, Chih-hao Hsieh and Mong-Huai Su. 2017. Local neighborhood communities in the understory play a critical role by affecting regeneration niches and subsequent community assembly in a montane cloud forest. *Ecological Research*. DOI 10.1007/s11284-017-1475-y

Chao, Kuo-Jung, Yi-Sheng Chen, Guo-Zhang Michael Song, Yuan-Mou Chang, Chiou-Rong Sheue, Oliver L. Phillipse and **Chang-Fu Hsieh**. 2017. Carbon

- concentration declines with decay class in tropical forest woody debris. *Forest Ecology and Management* 391 (1): 75–85.
- Lin, Tsan-Piao, Ho-Yih Liu, **Chang-Fu Hsieh** and Kuo-Hsiung Wang. 2016. Complete list of the native orchids of Taiwan and their type information. *Taiwania* 61(2): 78-126.
- Chang-Yang, Chia-Hao, I-Fang Sun, Cheng-Han Tsai, Chia-Ling Lu and **Chang-Fu Hsieh**. 2016. ENSO and frost co-determine decade-long temporal variation in flower and seed production in a subtropical rain forest. *Journal of Ecology* 104 (1): 44-54.
- Pei, Nancai, David L. Erickson, Bufeng Chen, Xuejun Ge, Xiangcheng Mi, Nathan G. Swenson, Jin-Long Zhang, Frank A. Jones, Chun-Lin Huang, Wanhui Ye, Zhanqing Hao, **Chang-Fu Hsieh**, Shawn Lum, Norman A. Bourg, John D. Parker, Jess K. Zimmerman, William J. McShea, Ida C. Lopez, I-Fang Sun, Stuart J. Davies, Keping Ma and W. John Kress. 2015. Closely-related taxa influence woody species discrimination via DNA barcoding: evidence from global forest dynamics plots. *Scientific Reports* 5: 15127.
- Huang, Chi-Tung, Chien-Lung Lin, and **Chang-Fu Hsieh**. 2015. Gibberellin-induced flowering in sexually defective *Remusatia vivipara* (Araceae). *Taiwania* 60 (1): 1-7.
- Li, Ching-Feng, David Zelený, Milan Chytrý, Ming-Yih Chen, Tze-Ying Chen, Chyi-Rong Chiou, Yue-Joe Hsia, Ho-Yih Liu, Sheng-Zehn Yang, Ching-Long Yeh, Jenn-Che Wang, Chiou-Feng Yu, Yen-Jen Lai, Ke Guo and **Chang-Fu Hsieh**. 2015. Chamaecyparis mountain cloud forest in Taiwan: ecology and vegetation classification. *Ecological Research*, 30: 771-791.
- Chang-Yang, Chia-Hao, Sheng-Hsin Su, Hsiang-Hua Wang, Tzer-Tong Lin and **Chang-Fu Hsieh**. 2015. Topography and canopy openness influence spatial variations in mortality, recruitment, and growth of a subtropical tree community. *Taiwan Journal of Forest Science* 30 (4): 259-269.
- Song, Guo-Zhang Michael, David Doley, David Yates, Kuo-Jung Chao and **Chang-Fu Hsieh**. 2014. Improving accuracy of canopy hemispherical photography by a constant threshold value derived from an unobscured overcast sky. *Canadian Journal of Forest Research* 44 (1): 17-27.
- Huang, Chi-Tung, and **Chang-Fu Hsieh**. 2014. Asexual bulbil development and diversification of reproductive strategy between *Remusatia vivipara* and *Remusatia pumila* (Araceae). *Taiwania* 59 (3): 220-230.
- Lin, Cheng-Tao, Tzu-Ying Chen, **Chang-Fu Hsieh** and Chyi-Rong Chiou. 2014. Abiotic Factors and *Yushania* Influences on *Abies* Forest Composition in Taiwan. *Taiwania* 59 (3): 247-261.
- Yang T.Y. Aleck and **Chang-Fu Hsieh**. 2013. Revision of Dr. Augustine Henry's A List of Plants from Formosa (1896). *Collection and Research* 26: 43-49.
- Lai, Jiangshan, David Coomes, Xiaojun Du, **Chang-Fu Hsieh**, I-Fang Sun, Wei-Chun Chao, Xiang-Cheng Mi, Hai-Bao Ren, Xu-Gao Wang, Zhan-Qing Hao and Keping Ma. 2013. A general combined model to describe tree-diameter distributions within subtropical and temperate forest communities. *Oikos* 122 (11): 1635-1641
- Huang, Chi-Tung, **Chang-Fu Hsieh** and Chun-Neng Wang 2013. *Remusatia yunnanensis* (Araceae): A newly recorded species in Taiwan. *Taiwania* 58 (1): 76-79.
- Tang, Cindy Q., Chyi-Rong Chiou, Cheng-Tao Lin, Jian-Rong Lin, **Chang-Fu Hsieh**, Jian-Wei Tang, Wen-Hua Su and Xiuli Hou. 2013. Plant diversity patterns in subtropical evergreen broad-leaved forests of Yunnan and Taiwan. *Ecological Research* 28 (1): 81-92.
- Chisholm, Ryan A., Helene C. Muller-Landau, Kassim Abdul Rahman, Daniel P. Bebbler, Yue Bin, Stephanie A. Bohlman, Norman A. Bourg, Joshua Brinks, Sarayudh Bunyavejchewin, Nathalie Butt, Honglin Cao, Min Cao, Dairon Cárdenas, Li-Wan Chang, Jyh-Min Chiang, George Chuyong, Richard Condit, Handanakere S. Dattaraja, Stuart Davies, Alvaro Duque, Christine Fletcher, Nimal Gunatilleke, Savitri Gunatilleke, Zhanqing Hao, Rhett D. Harrison, Robert Howe, **Chang-Fu Hsieh**,

- Stephen P. Hubbell, et al. 2013. Scale-dependent relationships between species richness and ecosystem function in forests. *Journal of Ecology* 101: 1214-1224.
- Li, Ching Feng, Milan Chytrý, David Zelený, Ming Yih Chen, Tze Ying Chen, Chyi Rong Chiou, Yue Joe Hsia, Ho Yih Liu, Sheng Zehn Yang, Ching Long Yeh, Jenn Che Wang, Chiou Feng Yu, Yen Jen Lai, Wei Chun Chao and **Chang Fu Hsieh**. 2013. Classification of Taiwan forest vegetation. *Applied Vegetation Science* 16: 698-719.
- Chang-Yang, Chia-Hao, Chia-Ling Lu, I-Fang Sun, and **Chang-Fu Hsieh**. 2013. Long-term seedling dynamics of tree species in a subtropical rain forest, Taiwan. *Taiwania* 58 (1): 35-43.
- Chang-Yang, Chia-Hao, Chia-Ling Lu, I-Fang Sun and **Chang-Fu Hsieh** 2013. Flowering and fruiting patterns in a subtropical rain forest, Taiwan. *Biotropica* 45: 165-174.
- Chang, Li-Wan, David Zelený, Ching-Feng Li, Shau-Ting Chiu, and **Chang-Fu Hsieh**. 2013. Better environmental data may reverse conclusions about niche- and dispersal-based processes in community assembly. *Ecology* 94: 2145-2151.
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- Fan, Su-Wei and **Chang-Fu Hsieh**. 2010. Seedling composition and facilitative effects of the herbaceous layer in a monsoon-affected forest in Nanjenshan, southern Taiwan. *Taiwania* 55 (4): 373-385.
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- Chang, Li-Wan, Jeen-Lian Hwong, Shau-Ting Chiu, Hsiang-Hua Wang, Kuoh-Cheng Yang, Hsiu-Ying Chang, and **Chang-Fu Hsieh**. 2010. Species composition, size-class structure, and diversity of the Lienhuachih forest dynamics plot in a subtropical evergreen broad-leaved forest in central Taiwan. *Taiwan Journal of Forestry Science* 25 (1): 81-95.
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- Yang, Kuoh-Cheng, Jei-Ker Lin, **Chang-Fu Hsieh**, Chiang-Luen Huang, Yu-Min Chang, Li-Hao Kuan, Jyh-Feng Su, and Shau-Ting Chiu. 2008. Vegetation pattern and woody species composition of a broad-leaved forest at the upstream basin of Nantzuhsienhsi in mid-southern Taiwan. *Taiwania* 53 (4): 325-337.
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- Su, Mong-Huai, **Chang-Fu Hsieh**, Chih-Hua Tsou, and Jenn-Che Wang. 2008. *Camellia kissi* Wallich (Theaceae): A newly recorded tree from Taiwan. *Taiwan Journal of Forestry Science* 23 (4): 301-307.
- Li, Sung-Po, Chun-Chi Lin, and **Chang-Fu Hsieh**. 2008. *Juncus tobdenii* Noltie (Juncaceae), a new record from northern Taiwan. *Taiwania* 53 (3): 321-324.
- Chao, Wei-Chun, Shan-Huah Wu, Su-Wei Fan, Huan-Yu Lin, **Chang-Fu Hsieh** and Kuo-Jung Chao. 2008. Distribution patterns of tree species in a lowland rainforest at Nanjen Lake, southern Taiwan. *Taiwania* 53 (2): 124-133.
- Wu, Chia-Chi, Chun-Chih Tsui, **Chang-Fu Hsieh**, Victor B. Asio, and Zueng-Sang Chen. 2007. Mineral nutrient status of tree species in relation to environmental factors in the subtropical rain forest of Taiwan. *Forest Ecology and Management* 239 (1): 81-91.
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