

CHIH-LIANG CHAO

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Short Biography:

Chih-Liang Chao, is Associate Professor of Environmental and Cultural Resources Department, National Hsinchu University, Taiwan. Her research focus mainly is protected area management, tourist behavior and resources management and aboriginal sustainable tourism planning. She has many research experiences across many different landscape type of protected areas or natural resources, including island, mountain, estuary wetland, forest land and community in rural areas. Since 2008, she has participated in and been a project director in the “Evaluating Management Effectiveness of Protected Areas in Middle Taiwan” funded by the Council Of Agriculture Executive Yuan Forestry Bureau. These projects have been covered over all the PAs in Taiwan and carried out the second evaluation until now. The continuous project, including “Integration and Discussion of Management effectiveness in Protected Areas” in 2017 and “Review of Management System Evaluation System for Protected Areas and Implementation of International Exchange” in 2018, she has not been an Project Director and also policy promoters to encourage positive effects after the evaluation of PAs. She has also been invited to serve as a member of the National Parks Planning Committee of Taiwan, a council member of the Wetland Association , and the Outdoor Recreation Association, and a member of the World Conservation Union (IUCN) Protected Areas Committee (WCPA).

【Education】 2003, Ph.D. Parks, Recreation, Tourism Management,
CLEMSON University, South Carolina, USA.

【Research

1. Evaluation of Protected Area Management
2. Tourism Resource Management in Protected Area
3. Recreation management in Protected Area
4. Aboriginal and Community based Conservation
5. Ecotourism Planning and Management
6. Application of GIS in Tourism Resources Planning

Expertise】

【Project Director】

- 2019 Hsinchu City Coastal Wildlife Refuge Implemented conservation Plan (HsingChu City Government)
- 2019 Landscape Change and Evaluation Index Construction in Satoyam : A Case Study of the Forest Ecosystem in Ciharaay (Taiwan Forestry Research Institute, COA, Project code: 108A029-02)
- 2019 Review on the Evaluation of the Management Efficiency of Protected Areas and the Implementation of International Exchange (Council Of Agriculture Executive Yuan Forestry Bureau, Project code: 108 Forestry Development -08.1- Protection -23(4))
- 2018 Review of Management System Evaluation System for Protected Areas and Implementation of International Exchange (Council Of Agriculture Executive Yuan Forestry Bureau, Project code: 107 Forestry Development-08.1-Protection-23(3))
- 2018 The Application, Development And Deepen Of PPGIS In Recreation Management Related To Protected Area (Taiwan National Science Council, Project code: 107-2119-M-007-019-)
- 2018 Constructing Public Perceptions Oriented Evaluation of Social and Cultural Ecosystem Service Toward Mangrove in Wetland (Taiwan National Science Council, Project code: 106-2621-M-007 -001 -MY3)
- 2017 Integration and Discussion of Management effectiveness in Protected Areas (Council Of Agriculture Executive Yuan Forestry Bureau, Project code: 106 Forestry Development -8.1-Protection-23(4))
- 2017 Integrating social value system into mangrove ecosystem services : Oriented from tourism and recreation capacity in wetland (Taiwan National Science Council, Project code: 106-2621-M-007 -001 -MY3)
- 2016 Community Resilience in stream and Fish Protection from the Perspectives of Post-normal Science : An Evidence from Social Capital in the Process of Construction, Adaptability and Transformability (Taiwan National Science Council, Project code: 105-2410-H-007-075-)
- 2016 Xiangshan Important Wetland (National Level) Implemented conservation Plan (HsingChu City Government)
- 2016 Hsinchu City Coastal Wildlife Refuge Implemented conservation Plan (HsingChu City Government)
- 2016 Applying To Participate In Civil Science Of Integrating Community Development And Conservation : The Discourse And Analysis Toward Tourist Behaviors And Community-Based Ecotourism (Taiwan National Science Council, Project code: 105-2119-M-007-034-MY2)
- 2015, Applied Participatory Citizen Science In An Integrated Approach Towards Building The Community-Based Ecotourism Resource Planning And Management (Taiwan National Science Council, Project code: 104-2119-M-134-002-)
- 2014, Incorporating Social Value System Into Mangrove Ecosystem Services : Oriented From Tourism And Recreation Capacity In Wetland (Taiwan National Science Council, Project code:

103-2621-M-134-002-)

- 2014, The Sad Song of Porters? To Explore the Inequalities of Social Capital from Mountain Porters in Alpine National Parks (Taiwan National Science Council, Project code: 103-2410-H-126-018-)
- 2013 The Connection And Comparison In Development Mechanisms And Applications For Indigenous & Community Conserved Area (ICCA) In Taiwan : The Case Of River Sustainable Development In Taiwan, (Taiwan National Science Council, Project code: 100WFD2300161, 102WFD2300121)
- 2013 Training and Promotion of Tourism empowerment in Siraya Cultural Tribes. (Tourism Bureau, MOTC.)
- 2010 Evaluating Management Effectiveness of Protected Areas in Middle Taiwan (Council Of Agriculture Executive Yuan Forestry Bureau, 99-Forestry Development-08.1-Protection-22(5))
- 2009 Evaluating Management Effectiveness of Protected Areas in Middle Taiwan (Council Of Agriculture Executive Yuan Forestry Bureau,, 98-Forestry Development-09.1-Protection-23(6)) °
- 2008 Evaluating Management Effectiveness of Protected Areas and Ecological Index building (Council Of Agriculture Executive Yuan Forestry Bureau,)

【Book Chapter and Paper Published】

1. Hsu, P.H., Lu, D. J., and Chao, C. L. (趙芝良) (Corresponding author), (2020). The Challenges of the Anthropocene: Human and Nature Coexistence System in Changbai Mountain Biosphere Reserve. **Journal of Wetlands (Accept)**
2. Chao, C. L. (趙芝良) (2018). Game Spirits : Thinking and Practice in Leisure Education · General Education Online, 78, 48-50 °
3. Chao, C. L. (趙芝良) and Lu, D.J. (2018). Biodiversity-Livelihood Linkage in Kenting NP : Tools for Capacity Building and Financesn 【Case Study in Box】 . In Leung, Yu-Fai, Spenceley, Anna, Hvenegaard, Glen, and Buckley, Ralf (eds.) (2018). *Tourism and Visitor Management in Protected Areas: Guidelines for Sustainability. Best Practice Protected Area Guidelines Series* No. 26, Gland, Switzerland: IUCN.
4. Chung, L.W., Lu, D. J., Lin, T. S., Chao, C. L., Liu, C. C , and Liao, M. C. (2017) Evaluating Management Effectiveness of Mt. Huangzui Ecological Protected Area of Yangmingshan National Park. *Journal of National Park*, 27 (2): 51-62. (in Chinese)
5. Chao, Chih-Liang (趙芝良), Wei-Lin Chen (2016). Island Economies And Sustainable Tourism : The Contributions Of A Small Island Toward The Regional Economy In Taiwan. *International Journal of Social Sciences*, 46(1), 1-15.
6. Chao, Chih-Liang(趙芝良), Yeh Mei-Chih, Hung Pei-Hsun, Lin Huan-Yu, Tung Gene-Sheng (2016). Engaging With the People : An Application of Quality Attribute Ranking and Gap Analysis in Users' Expectation toward Taipei Botanic Garden. *Jour. Exp. For. Nat. Taiwan Univ.*

- 30(4): 259-276. (in Chinese)
7. Chao, Chih-Liang (趙芝良), Tzu-Chiang Wu, Chih-Chung Tsai, Mei-Chih Yeh (2015). Citizen Education Participation and Practices in Wetland Management and Community Conservation. *Jour. Exp. For. Nat. Taiwan Univ.* 29(4): 293-304. (in Chinese)
 8. Chen, Chuan-Cheng; Chao, Chih-Liang(趙芝良); Cheng, Yu-Chan. (2015). Is Service-Learning Free of Annoying Inconvenience ? Understanding Students' Coping Strategies in Learning Pedagogy (Editing) In Phylis Lan Lin & Mark R. Wiegand, Smith-Tolken, A.R. (eds.) *Service-Learning in Higher Education: Building Community across the Global*. Indianapolis, Indiana, USA: University of Indianapolis Press.
 9. Chih-Liang, Chao(趙芝良) (2014), Gazes and Narratives in the Dark Spectacle : Alang Gluban After the Film of Seedliq Bale. *Journal Of Outdoor Recreation Study*, 27(3),57 -82. (in Chinese)
 10. Lu, D.J., Chao, Chih-Liang(趙芝良), S.Y. Lo, C.W. Kao, W.L. Jasmine Chen, L.C. Lo, M.C. Yeh, L.D.Ho, H.Y. Chang and J.Y. Wang. (2013). Evaluating management effectiveness of the coastal and estuarine protected areas in Taiwan. *Journal of Geographical Science*, 68: 19-42. (In Chinese)
 11. Chen, Chuan-Cheng; Chao, Chih-Liang(趙芝良); Cheng, Yu-Chan; Liu, Jia-Li (2012). Deep Reflection and Resilience: Service-Learning of Taiwanese University Students. *Service-Learning in Higher Education: Connecting the Global to the Local*(ISBN: 978-1-880938-82-9). USA.
 12. Lu, D.J., Sasala, T. and C.L. Chao(趙芝良) (2012) An Analysis of International Law, National Legislation, Judgements, and Institutions as They Interrelate with Territories and Areas Conserved, by Indigenous Peoples and Local Communities. Natural Justice in Bangalore and Kalpavriksh in Pune and Delhi.
 13. Lu, D. J., Kao, C. W., and Chao, C. L. (2012). Evaluating the Management Effectiveness of Five Protected Areas in Taiwan Using WWF's RAPPAM, *Environmental Management*, 50, 272–282
 14. Chao, C. L., Hsu, P.H. (2011). Learning About The Development Of Eco-Tourism In The Context Of The Smangus Tribe'S Traditional Ecological Knowledge. GeoJournal of Tourism and Geosites, Vol. 17 , No. 1 , p.p.7 -21 .
 15. Chao, C. L. and Chen, W. L. (2011). The interaction meanings in serious leisure behaviors with living beings— focus on reptile breeding activity, *Journal of Landscape*. (In Chinese)
 16. Chao, C. L. and Tsi, H. Y. (2011). An Application of Profit Hypothesis to Explore Characteristics of Serious Leisure from National Forest Volunteers, *Journal of Landscape*, 17 (3). (In Chinese)
 17. Chao, C. L. and Wang, Y. T. (2011). The Study of the Recreation Conflicts and Coping Behaviors on Mountain Walkers, *Journal of Island Tourism Research*, 4 (1). (In Chinese)
 18. Chao, C. L. and Chen, W. L. (2010). Constructing the Model of Serious Leisure Career for Pet Reptile Breeders. *Journal of Outdoor Recreation Study*, 23 (4), 1-24. (In Chinese)
 19. Chao, C. L., Yeh, M. C., Lu, D. J., Chen, W. L., Hsu, P. H. (2010). Evaluation of Management Effectiveness of Gaomei Wildlife Refuge. *Journal of National Park*, 20 (4), 33-44. (In Chinese)
 20. Chao, C. L. and Hsu, P. H (2010). Bordering Host and Guest: Existential Authenticity in

Smangus Village's Tourism development. *Journal of Outdoor Recreation Study*, 23 (1), 85-107.
(In Chinese)

21. Chao, C. L. and Hsu, P. H. (2010). The Language of Space: Authenticity in Smangus Tribe's Tourism Space Development. *Journal of Landscape*, 16 (2), 81-103. (In Chinese)

【Conference and Speech】

1. Chih-Liang Chao (2018/11) Involving Citizen Geographic Information into Wetland Protected Area Management. 2018 ICLEE- International Consortium of Landscape and Ecological Engineering, Taipei, Taiwan.
2. Chih-Liang Chao (2018/08) An Application Of Citizen Geographic Information in Spatial Visitors Management in Wetland Management. 2018 SWS, China Chapter and Asia Chapter Joint Meeting Wetlands and Ecological Civilization, Aug 15-22, Jilin, China.
3. Chih-Liang Chao (2017/06) A Journey from Lost to Found : Constructing Community Perceptions Oriented Evaluation of Cultural Ecosystem Service Toward Community Natural Resource Management. 2017 ISSRM (International Symposium on Society and Resource Management (ISSRM) June 19-22, Umeå, Sweden
4. Wei-Lin Chen and Chih-Liang Chao (2016/11/16) Tourism Communication Generated from Volunteered Geographic Information: The Case of Wang-Hsiang Tribe of Taiwan. 19th International Joint World Cultural Tourism Association and 5th World Tourism Association. Cebu, Philippines.
5. Chao, C. L. (2016/09/14). Value Nature : A User's Perceptions-based Approach for Information Management in Mangrove Ecosystem Service, 2016 International Wetland Conservation in Taiwan, Taipei, Taiwan.
6. Chao, C. L. (2016/11/16) Ecotourism and Community Conservation : Contributions of Ecosystem Services into Community Ecotourism Planning. 19th International joint World Cultural Tourism Conference, Nov-16, Cebu, Philippines.
7. Lu, D.J. and Chao, C.L. (2013/11/14). (Identify the Cultural Issues of Taiwan Indigenous and Local Communities' Conserved Territories and Areas (ICCAs) from Creek Conservation for Traditional Inland fishery, Society and Natural Resources. The 1st Asia Parks Congress. Shendai, Japan