Chun-Wei Huang

Post Doctoral Researcher,
380 Edwards Street, Room 013 New Haven, CT 06511
chun-wei.hunag@yale.edu | yolatengoseam@gmail.com

PUBLICATIONS

Developing a conjunctive use optimization model for allocating surface and subsurface water in an off-stream artificial lake system.
Water / MDPI 7/26/2016
Co- author
Impact factor: 1.687 in 2015; Rank 33th/85 in Water Resources

Using Landscape Metrics Analysis and Analytic Hierarchy Process to Assess Water Harvesting Potential Sites in Jordan.
Environments / MDPI 5/29/2015
Co- author

Developing a Cell-Based Spatial Optimization Model for Land-use Patterns Planning.
Sustainability / MDPI 12/09/2014
First author
Impact factor:1.343 in 2015 (Rank 146th/225 in Environmental Science; Rank 62th/104 in Environmental Studies)

Conservation planning to zone protected areas under optimal landscape management for bird conservation.
Environmental Modelling and Software/ELSEVIER 07/01/2014
Corresponding author
Impact factor: 4.207 in 2015(Rank 6th/104 in Computer Science, Interdisciplinary Applications; Rank 27th/225 in Environmental Science)

Using CV-GLUE Procedure in Analysis of Wetland Model Predictive Uncertainty.
Journal of Environmental Management/ELSEVIER 04/12/2014
First author
Impact factor: 3.131 in 2015 (Rank 54th/225 in Environmental Science)

Applying Genetic Algorithm and Neural Network to the Conjunctive Use of Surface and Subsurface Water.
Water Resources Management/Springer 2013
Co-author
Impact factor: 2.437 in 2015 (Rank 12th/85 in Water Resources; Rank 13th/126 in Engineering, Civil)

A system dynamic model and sensitivity analysis for simulating domestic pollution removal in a free water surface constructed wetland.
Water Air Soil Pollution/Springer 2012
Co-author
Impact factor: 1.389 in 2015 (Rank 49th/84 in Methodology and Atmospheric Sciences; Rank 124th/225in Environmental Sciences; 35th/85 in Water Resources)

Monitoring and estimating the flow conditions and fish occurrence probability under various flow conditions at reach scale using Genetic algorithms and Kriging methods.
Ecological Modeling/ ELSEVIER 2011
Co-author
Impact factor: 2.275 in 2015 (Rank 61th/149 in Ecology

Modeling the Hydrologic Effect of Dynamic Land Use Change using a Distributed Hydrologic Model and a Spatial Land-use Allocation Model.
Hydrological Processes/Wiley 2010
Co-author
Impact factor: 2.768 in 2015 (Rank 8th/85 in Water Resources)

EDUCATION

National Taiwan University **Taipei, Taiwan**
Bioenvironmental Systems Engineering in Major 09/2010 - 06/2015
Ph. D.

- **Relevant Coursework:** Landscape Ecology/ Systematic Conservation Planning/ Land-use Change Modeling/ Heuristic Algorithms/ Spatial Optimization Methods/ Spatial Conservation Prioritization

National Chiao Tung University **Hsinchu, Taiwan**
Master of Civil Engineering in Major 09/2003 - 07/2005
(Hydraulic and Ocean Engineering Program)

- **Relevant Coursework:** Water Resource Management/ Groundwater Flow Modeling/ Data Mining/ Artificial Neural Network/ Environmental Hydrogeology/ Open Channel Flow/ Genetic Algorithms

WORK & LEADERSHIP EXPERIENCE

Yale University **New Haven, CT, USA**
Post Doctoral Researcher, Yale School of Forestry and Environmental Studies 4/2016 – Now

National Chiao Tung University **Hsinchu, Taiwan**
Post Doctoral Researcher, Dept. of Civil Engineering 10/2015 – 03/2016

Ming Chi University of Technology **Taipei, Taiwan**
Adjunct Assistant Professor ,The General Education Center 09/2014 – 01/2016

- Lecturer of Biodiversity and Conservation
- Lecturer of Ecosystem Services and Environmental Management

Sinotech Engineering Consults, Ltd. **Taipei, Taiwan**
Environmental Engineer, Environmental Engineering Dept II. 03/2008 – 03/2009

- Investigating Soil and Groundwater Pollution at the Gas Stations in Taiwan (the Fourth Project), 2008, Environmental Protection Administration Executive Yuan, Taiwan. EPA-96-GA12-02-A216 . (03/2008-03/2009)
- *Proposal,* Inspection of Facilities for Preventing the Pollution of Groundwater Bodies and Monitoring Equipment in Gas Stations, and Consultation on the Online Declaration System for 2009, Environmental Protection Administration Executive Yuan, Taiwan. EPA-98-GA12-03-A037. (2008).
- Participation in projects:
  - *Proposal,* Inspection of Facilities for Preventing the Pollution of Groundwater Bodies and Monitoring Equipment in Gas Stations, and Consultation on the Online Declaration System for

2009, Environmental Protection Administration Executive Yuan, Taiwan. EPA-98-GA12-03-A037. (2008)

- *Proposal*, Investigating Soil and Groundwater Pollution at the Gas Stations in Taiwan (the Fifth Project), Environmental Protection Administration Executive Yuan, Taiwan. EPA-098-GA102-03-A058 (2009).

HONORS & AWARDS

2013 Endorsed Ph.D Research

Center for Global Change and Sustainability Science (CGCSS), National Taipei University 2013

- Developing a cell-based spatial optimization model for analyzing trade-off between urbanization and conservation in urban planning

The Fifth International Conference on Environmental Science and Technology Student Paper Award

The American Academy of Sciences 2010

- A Generalized Likelihood Sensitivity Analysis for Simulating the Water Quality of Constructed Wetlands. (*Co-author*)