# Chuanwang HUA

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## EDUCATION

**Politecnico di Milano**  
*Master of Science in Sustainable Architecture and Landscape Design*

Milano, Italy  
01/09/2022-30/04/2025

**Macau University of Science and Technology**  
BachelorofArtsinArtDesign:LandscapeDesign

Macau, China  
01/09/2017-01/05/ 2021

## RESEARCH FIELDS

My research focuses on urban green and blue spaces, GeoAI applications, and environmental exposure. I examine how spatial patterns, pollution, and heat exposure influence residents′ physical and mental health, outdoor behavior, and environmental equity using GIS-based and data-driven methods.

## PENDING PUBLICATION

Hua, C. and Y. Kong (2025). "The synergistic mechanism of urban green space on physical activity density and emotional experience: Evidence from the Pearl River Delta." Urban Forestry & Urban Greening: 129194. https://doi.org/10.1016/j.ufug.2025.12919

## RESEARCH EXPERIENCES

**Politecnico di Milano**  
*Project: The synergistic mechanism of urban green space on physical activity density and emotional experience: Evidence from the Pearl River Delta*

Milano, Italy  
01/2024

**Duties and Achievements:**

- Collected social media data from Sina Weibo for the Pearl River Delta region of 2021 using web scraping techniques, analysing text sentiment to quantify residents' mental health and collected 45,000 jogging and cycling trajectory data from the "Two Steps" platform, filtering out anomalies to analyse residents' physical activity levels accurately;
- Utilised the Baidu Maps API and FCN to evaluate the Green View Index, used the G2SFCA method based on OpenStreetMap data to assess accessibility, and calculated the NDVI using data from the China National Ecological Science Data Center for usability;
- Analysed the sentiment information in Weibo data using Natural language processing (NLP) technology and used spatial machine learning models to explore the interaction between variables;
- Applied the Coordinated Coupling Degree (CCD) model to explore the complex interaction between urban green space quality, mental health, and physical health, providing an important scientific basis for urban planning and policy-making;
- Integrated big data and spatial analysis methods to offer a systematic analysis of urban agglomerations across large spatial scales, providing new directions and perspectives for future research.

**Macau University of Science and Technology**  
*Project: International Competition - World Landscape Architecture Award 2021*

Macau, China  
08/2020-05/2021

**Duties and Achievements:**

- Studied ecological restoration technology courses with the team to address water resource storage issues caused by the

arid climate in Fushun, mastering advanced ecological restoration theories and methods;
- Reviewed extensive literature on ecological restoration and engaged in in-depth technical exchanges with experts from the Environmental Research Institute to ensure the scientific validity and feasibility of the project;
- Implemented a Terraced Wetland Wastewater Purification System, utilising the natural purification abilities of wetland plants to treat wastewater and effectively store and manage water resources through terraced structures, achieving ecological restoration goals;
- Optimised the project design by combining ecological restoration techniques with actual environmental conditions, ensuring the innovation and feasibility of the design through repeated iterations;
- Led this project as the team leader shortlisted for the World Landscape Architecture Awards 2021, gaining international recognition.

## WORKING EXPERIENCES

**Modum Architects Design Firm**                                                                                                  Nanjing, China
*Position: Designer Assistant*                                                                                                        06/2023-09/2023
**Duties and Achievements:**
- Conducted landscape design, creating practical and aesthetically pleasing private gardens within a limited budget;
- Performed site research for two months, incorporating resident needs into detailed design plans to ensure feasibility and practicality;
- Supervised the construction process thoroughly, ensuring accurate implementation of design plans and making optimisation adjustments based on actual conditions;
- Enhanced understanding and application of landscape design through practical projects, accumulating valuable design and implementation experience and improving cost-awareness and resource management skills.

**DS Design Studio**                                                                                                                  Ganzhou, China
*Position: Company Supervisor in the Design Department*                                                                 09/2019-08/2021
**Duties and Achievements:**
- Took charge of communicating with customers, independently completing interior design plans and project quotations;
- Utilised professional software such as AutoCAD, Photoshop, SketchUp, and Enscape proficiently;
- Completed project implementation independently, gaining familiarity with interior design construction processes and details.

## EXTRACURRICULAR ACTIVITIES

**Europe. China Artists Association (Macau) Branch**                                                                   Macau, China
*Position: Chairman of the Student Union*                                                                                     05/2018-05/2020
**Duties and Achievements:**
- Planned and organised college students' art exhibitions and participated in the review of works;
- Handled publicity for the art exhibitions by creating posters, promoting through social media, and coordinating with students;
- Contributed to the overall operation, planning, and supervision of the association's activities.

**Student Union of Faculty of Humanities and Arts, Macau University of Science and Technology**   Macau, China
*Position: Deputy Director of the Publicity Section*                                                                         09/2018-06/2019
**Duties and Achievements:**
- Organised several creative and influential poster design activities successfully, attracting a large number of students to participate;
- Coordinated in the team actively to ensure the smooth progress of all publicity activities, improved the work efficiency and activity quality of the department, and received the certificate of outstanding student union cadres.

## ACHIEVEMENTS

**Awards:**

- **Excellence Award** in "Cross-Strait Emerging Design Competition · Huacan Award National Competition" - China Association of Higher Education & China Zhongshan Cultural Exchange Association & Beijing Gehua Cultural Development Group (09/2021);
- **Third Prize** in the Second Hakka Cup Design Competition - Jiusan Society Ganzhou Municipal Committee (08/2021);
- **Shortlist** of the World Landscape Architecture Awards - World Landscape Architecture (05/2021).

## KEY SKILLS

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| **LANGUAGE** | Chinese (Native); English (Fluent). |
| **RESEARCH** | Field Investigation; Interdisciplinary Method; Qualitative Analysis; Quantitative Analysis; Questionnaire Survey; Interview Method; Experimental Method; Literature Analysis; Case Study; Big Data Analytics. |
| **SOFTWARE** | ArcGIS Pro; SPSS; Python; AutoCAD; Photoshop; Illustrate; SketchUp. |