

Yedong Chen

PHD STUDENT · CHINA UNIVERSITY OF MINING AND TECHNOLOGY

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Education

China University of Mining and Technology

Xuzhou, Jiangsu, China

PH.D., MUNICIPAL ENGINEERING, SCHOOL OF MECHANICS AND CIVIL ENGINEERING

2020.09-Present

- Supervisor: Chang Jiang
- Dissertation: Land Use Layout and Planning Control in Coal Resource-Based Cities under the Compact City Concept (in Chinese)
- Research Focus: Urban Land Use Structure Optimization, Mixed-Use of Urban Land, Territorial Spatial Planning

Shandong Jianzhu University

Jinan, Shandong, China

MASTER'S DEGREE, LANDSCAPE ARCHITECTURE, SCHOOL OF ARCHITECTURE AND URBAN

2017.09-2020.06

PLANNING

- Supervisors: Song Feng, Wang Wenwen
- Thesis: Research on the Landscape Features of Furong Street-Baihua Lake Historical and Cultural Block Based on Landscape Visual Evaluation (in Chinese)
- Research Focus: Landscape Architecture Planning and Design

Shandong Agricultural University

Jinan, Shandong, China

BACHELOR'S DEGREE, ENVIRONMENTAL DESIGN, COLLEGE OF FORESTRY

2013.09-2017.06

Publications

PUBLISHED

Chen, Yedong, Jiang Chang, Zixuan Li, Li Ming, and Cankun Li. 2024. "Influence of Land Use Change on Habitat Quality: A Case Study of Coal Mining Subsidence Areas." *Environmental Monitoring and Assessment* 196(6): 535.

Xu, Ziqi, Jiang Chang, Ziyi Wang, Zixuan Li, Xiaoyi Liu, Yedong Chen, Zhongyin Wei, and Jingyu Sun. 2024. "Regional Urban Shrinkage Can Enhance Ecosystem Services—Evidence from China's Rust Belt." *Remote Sensing* 16(16): 3040.

Chen, Yedong, Jiang Chang, Zixuan Li, Li Ming, Cankun Li, and Cheng Li. 2023. "Coupling Coordination and Spatiotemporal Analysis of Urban Compactness and Land-Use Efficiency in Resource-Based Areas: A Case Study of Shanxi Province, China." *Land* 12(9): 1658.

Li, Zixuan, Jiang Chang, Ziyi Wang, Yedong Chen, and Cheng Li. 2023. "Stability of Regional Ecological Supply-Demand Is Enhanced by Complex Network Modelling: Evidence from the Xuzhou Metropolitan Area, China." *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*.

Chen Yedong, Xu Ziqi, Jiang Chang, and Zhuang Fei. (2023). Research on the Coupling Coordination and Spatiotemporal Evolution of Urban Compactness and Land Use Structure in Resource-Based Areas. *Planning Empowerment—Proceedings of the 2023 China Urban Planning Annual Conference (20 General Planning)* (pp. 517-530). (in Chinese)

Jiang, CHANG, CHEN Yedong, LI Zixuan, WANG Hui, and FENG Shanshan. 2022. "The Characteristics and Dynamic Mechanism of Regional Development and Evolution of Pan'an Lake." *Coal Geology & Exploration* 50(4): 5.

Ming, Li, Jiang Chang, Cheng Li, Yedong Chen, and Cankun Li. 2022. "Spatial-Temporal Patterns of Ecosystem Services Supply-Demand and Influencing Factors: A Case Study of Resource-Based Cities in the Yellow River Basin, China." *International Journal of Environmental Research and Public Health* 19(23): 16100.

Jiang Chang, Chen Yedong, Li Zixuan, Wang Hui, and Feng Shanshan. (2022). Study on the Characteristics and Driving Factors of the Evolution of Pan'an Lake Regional Development. *Coal Geology & Exploration* (04), 25-34. (in Chinese)

- Han, Xueqi, Sihao Gu, Zhicheng Zhuang, Li Ming, and Yedong Chen. 2021. "Accessibility of Pocket Parks in Xuzhou Old City Based on Space Syntax Theory." *International Journal of Environmental Sustainability and Protection* 1(1): 41–50.
- Jiang Chang, Li Ming, and Chen Yedong. (2021). *Comprehensive Ecological Restoration in Coal Resource-Based Cities under Planning Guidance—A Case Study of Gujiao, Shanxi Province*. *China Coal* (05), 83-90. (in Chinese)
- Wang Lin, Song Feng, and Chen Yedong. (2020). Exploring the Landscape Characteristics of Rural Settlements in the Song Dynasty through the Scroll of "A Thousand Miles of Rivers and Mountains". *Journal of Fine Arts* (05), 31-37. (in Chinese)
- Song Feng, Wang Lin, and Chen Yedong. (2020). Research on the Landscape Characteristics and Cultural Continuity of the Eight Views of Jinan in the Chongzhen Period of the Ming Dynasty. *Famous Cities of China* (08), 71-75. (in Chinese)
- Wang Lin, Song Feng, and Chen Yedong. (2020). Exploration of Rural Landscape Creation in the "Forty Views of the Yuanmingyuan". *Urban Architecture* (05), 155-157+185. (in Chinese)
- Song Feng and Chen Yedong. (2019). Micro-Update Strategies for Traditional Community Public Spaces Based on PSPL Survey Method—A Case Study of Jiangjunmiao Historical and Cultural Block in Jinan. *Famous Cities of China* (09), 55-60. (in Chinese)
- Wang Lin and Chen Yedong. (2019). Application of Mirror Artworks in Landscape Design—A Case Study of Martha Schwartz's Labyrinth Garden. *Art Education Research* (15), 90-91. (in Chinese)
- Zhang Yilun, Ding Guoxun, and Chen Yedong. (2019). Research on the Application of Text in Baotu Spring Park, Jinan. *Art Education Research* (11), 82-83. (in Chinese)
- Chen Yedong and Song Feng. (2019). Cultural Connotations of Landscape Paving—Paving Art of Baotu Spring Park. *Ancient Architecture and Garden Technology* (01), 32-36. (in Chinese)
- Chen Yedong and Song Feng. (2018). Research on the Landscape Features of Cultural Heritage Streets—A Case Study of the Core Protection Area of Shandong University's West Campus Historical and Cultural Street. *China Society of Landscape Architecture. Proceedings of the 2018 Annual Meeting of the China Society of Landscape Architecture* (pp. 709-710). China Architecture & Building Press. (in Chinese)
- Chen Yedong. (2018). Research on Plant Application in Low-Impact Development. *Proceedings of the 2018 Architectural Science and Management Academic Exchange Conference* (pp.55). (in Chinese)

MASTER THESIS

- Chen, Yedong. (2020). Research on the Landscape Features of Furong Street-Baihua Lake Historical and Cultural Block Based on Landscape Visual Evaluation. Shandong Jianzhu University. (in Chinese)

PATENTS

- A Method and Experimental System for Simulating Tunnel Fire Smoke Flow Using Water Vapor, ZL202011058907.5. (in Chinese)

Awards, Fellowships, & Grants

- | | |
|------|---|
| 2022 | Best Paper/Best Oral Presentation , 9th International Conference on Energy, Resources, Environment and Sustainable Development |
| 2020 | First-Class Ph.D. Scholarship , China University of Mining and Technology |
| 2020 | Outstanding Master's Thesis , Shandong Provincial Department of Education |
| 2020 | Outstanding Master's Thesis , Shandong Jianzhu University |
| 2019 | First-Class Master's Scholarship , Shandong Jianzhu University |
| 2019 | Outstanding Graduate Student Leader , Shandong Jianzhu University |

Presentations

CONTRIBUTED PRESENTATIONS

Chen, Yedong. (2023). Research on the Spatiotemporal Evolution and Coupling Coordination of Urban Compactness and Land Use Structure in Resource-Based Areas. 2023 China Urban Planning Annual Conference.

Chen, Yedong. (2023). Experimental Study on the Effect of Tunnel Sealing on Fire Response Behavior. 2nd International Conference on Urban Public Safety and Emergency Rescue.

Chen, Yedong. (2022). Evolution Characteristics and Coping Strategies of Coal Resource-Based Cities from the Perspective of Smart Shrinkage. Xi'an Jiaotong-Liverpool University 2022 Doctoral Forum.

Chen, Yedong. (2022). Study on the Influence of Sealing Behavior on Tunnel Fire Combustion Status and Smoke Temperature Characteristics. Jiangsu Province Graduate "Safety and Emergency" Academic Innovation Forum.

Chen, Yedong. (2022). The Mechanism of Urban Compactness on Land Use Efficiency and Planning Response in Coal Resource-Based Cities. China University of Mining and Technology Institute of Architecture and Urban Planning 2022 Doctoral Forum.

Chen, Yedong. (2022). Shrinkage Characteristics and Planning Strategy of Sanhui Town in Chongqing from the Perspective of Smart Shrinkage. 9th International Conference on Energy, Resources, Environment, and Sustainable Development.

Research Experience

Liulin County Natural Resources Bureau LAND AND SPACE ECOLOGICAL RESTORATION PLANNING OF LIULIN COUNTY (2021-2035) <ul style="list-style-type: none">Participated as a key contributor in the research on mine ecological restoration	<i>Lvliang, Shanxi, China</i> 2023.09 - 2024.03
Jiangsu Graduate Research Innovation Program RESEARCH ON THE MECHANISM OF URBAN COMPACTNESS ON LAND USE EFFICIENCY AND PLANNING RESPONSE <ul style="list-style-type: none">Project Leader	<i>Xuzhou, Jiangsu, China</i> 2022.03 - 2023.03
China University of Mining and Technology Graduate Research Innovation Program RESEARCH ON THE MECHANISM OF URBAN COMPACTNESS ON LAND USE EFFICIENCY AND PLANNING RESPONSE <ul style="list-style-type: none">Project Leader	<i>Xuzhou, Jiangsu, China</i> 2022.03 - 2023.03
Anhui Provincial Institute of Urban and Rural Planning SPECIAL RESEARCH ON ECOLOGICAL RESTORATION PLANNING OF HUAIBEI (2021-2035) <ul style="list-style-type: none">Participated as a key contributor in the research on mine ecological restoration	<i>Hefei, Anhui, China</i> 2022.01 - 2022.12
Xuzhou Science and Technology Plan Project - Key Research and Development Plan (Social Development) RESEARCH AND DEMONSTRATION ON WETLAND ECOLOGICAL RESTORATION AND GREEN DEVELOPMENT IN COAL MINING SUBSIDENCE AREAS IN XUZHOU <ul style="list-style-type: none">Participated as a key contributor in report writing and outcome delivery, mainly responsible for land use evolution and ecological restoration planning in coal mining subsidence areas	<i>Xuzhou, Jiangsu, China</i> 2021.07 - 2023.08
Agence Française de Développement COAL MINE AREA REGENERATION EXPERIENCES IN CHINESE PROVINCES IN THE CONTEXT OF THE NATIONAL COAL PHASE-OUT POLICY <ul style="list-style-type: none">Main researcher responsible for field experiments, data collection, and processing	<i>Xuzhou, Jiangsu, China</i> 2020.10 - 2021.03
Jincheng Blue Flame Coal Industry Co., Ltd. URBAN DESIGN FOR THE TRANSFORMATION AND DEVELOPMENT OF FENGHUANGSHAN MINE <ul style="list-style-type: none">Key contributor in site landscape planning and report preparation	<i>Jincheng, Shanxi, China</i> 2020.08 - 2021.01

National Natural Science Foundation of China

Xuzhou, Jiangsu, China

RESEARCH ON THE SPATIOTEMPORAL EVOLUTION PATTERN AND OPTIMIZATION MODEL OF GREEN
INFRASTRUCTURE IN COAL RESOURCE-BASED CITIES

2017.01 - 2021.01

- Participated as a key researcher in analyzing the spatiotemporal patterns of land use in coal resource-based cities