

#### Ph.D. of Architecture, Industrial Design and Cultural Heritage

# University of Campania Luigi Vanvitelli, Aversa, IT 81031

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Education \_\_\_

# University of Campania Luigi Vanvitelli

Aversa, IT

Ph.D. Architecture, Industrial Design and Cultural Heritage

Feb. 2020 - Mar. 2024

- Co-Advisors: Massimiliano Masullo, Dr. Luigi Maffei
- Thesis: Towards a Human-Centered Approach for the Multisensory Design of Urban Park

**Southwest University** 

Chongging,CN

M.S. FUNDAMENTAL PSYCHOLOGY (COGNITION DIRECTION)

Sep. 2013 - Jul. 2016

· Advisor: Dr. Quanhong Wang

**Beijing Wuzi University** 

Beijing,CN

B.S. Logistics Management

Sep. 2009 - Jul. 2013

• Courses: Transportation Management; Supply Chain; Operations Research

Harbin Institute of Technology-Shenzhen-Dept of Architecture

# Research Experience \_\_\_\_\_

Shenzhen, CN

Advisors: Biao Yang

Aug. 2023 - Present

- Research project: "3D modeling, lighting simulation and verification of the integrative lighting design for traffic tunnels"
- Research project: "Potential influencing factors of the commercial signage at night on visual comfort of pedestrians"

### University of Campania Luigi Vanvitelli

Aversa, IT

CO-Advisors: Massimiliano Masullo, Luigi Maffei

Feb. 2020 - Mar. 2024

- Research project: "Multisensory investigation for eldery-centred design of common living urban environments"
- Thesis: "Towards a Human-Centered Approach for the Multisensory Design of Urban Park"

# Hong Kong Polytechnic University-Dept of Building Environment and Energy Engineering

Hong Kong

ADVISORS: CHI-KWAN CHAU

Aug. 2022 - Nov. 2022

• Visiting PhD Program: "Using Augmented Sound Installations for Noise Masking in a Campus Green Space"

# Harbin Institute of Technology-Shenzhen-Dept of Architecture

Shenzhen, CN

Advisors: Biao Yang

Sep.2018-Jan.2020

- Research project: "Urban lit environment health diagnosis and road lighting energy saving research"
- National project: "Research on the impact mechanism of dynamic lighting on visual perception constancy in healthy light environment"

# **Southwest University - Dept of Psychology**

Chongqing, CN

Advisors: Quanhong Wang

Sep.2013-Jul.2016

- Research project: "EEG research on the recognition process of symmetry perception"
- Research project: "Cognitive research on the recognition process of Chinese character based on fMRI"
- Thesis: "The processing mechanism of symmetry visual perception under the condition of oblique symmetry: two ERP researches on SPN components"

# Publications \_

#### **PUBLISHED**

**Li, J.**, Masullo, M., Maffei, L., Pascale, A., Chau, C.K. & Lin, M., 2024. Improving informational-attentional masking of water sound on traffic noise by spatial variation settings: An in situ study with brain activity measurements. Applied Acoustics, 218, p.109904.

- **Li, J.**, Maffei, L., Pascale, A., Masullo, M., Lin, M., & Chau, C. K. 2023. Road traffic noise informational masking with water sound sequences: From laboratory simulation to field study. The Journal of the Acoustical Society of America, 153(3\_supplement), A233-A233.
- Masullo, M., Cioffi, F., **Li, J.**, Maffei, L., Ciampi, G., Sibilio, S., & Scorpio, M. 2023. Urban Park Lighting Quality Perception: An Immersive Virtual Reality Experiment. Sustainability, 15(3), 2069.
- Masullo, M., Cioffi, F., **Li, J.**, Maffei, L., Scorpio, M., Iachini, T., ... & Ruotolo, F. 2022. An Investigation of the Influence of the Night Lighting in a Urban Park on Individuals' Emotions. Sustainability, 14(14), 8556.
- **Li, J.**, Maffei, L., Pascale, A., & Masullo, M. 2022. Effects of spatialized water-sound sequences for traffic noise masking on brain activities. The Journal of the Acoustical Society of America, 152(1), 172-183.
- **Li, J.**, Maffei, L., Pascale, A., & Masullo, M. 2022. Effects of the spatialisation of water-sounds sequences on the perception of traffic noise. Vibrations in Physical Systems, 33(1).
- Jiang, X., **Li, J.**, & Yang, B. 2021. Luminance and saliency have impact on pedestrians' fixation distribution during natural walking: Evidence from mobile eye-tracker. Lighting Research & Technology, 53(4),359-372.

## IN PREP

- **Li, J.**, Meng, Y., Yang, B. 2024. Potential Influencing Factors of the Commercial Signage at Night on Visual Comfort of Pedestrians. Building and Environment.
- **Li, J.**, Masullo, M., Maffei, L. 2024. The Designing and Perception of the Multisensory Settings in Urban Park through Virtual Reality Technology and Neuro-Psychological Measurement. Building and Environment.

# Presentations \_\_\_

#### **CONTRIBUTED PRESENTATIONS**

- Masullo M., Cioffi F., **Li, J.\***, Maffei L., Iachini T., Ruggiero G., Ruotolo F. 2023. Traffic noise mitigation in urban multisensory environments: a virtual reality approach to urban sound planning. Oral presentation: IFAU23 IV International Forum for Architecture and Urbanism Climate Change and Cultural Heritage. Caserta. Italy.
- **Li, J.\***, Maffei, L., Pascale, A., & Masullo, M. 2022. Using spatialized water sound sequences for traffic noise mitigation: correlation analysis of subjective evaluation and neural measurements. Online presentation: 24th International Congress on Acoustics, Gyeongju, Korea.
- **Li, J.\***, Masullo, M., & Maffei, L. 2020. Using Eye Tracking to Investigate the Audio-Visual Effect of Landscape Perception: A Research Review. Online presentation: INTER-NOISE and NOISE-CON Congress and Conference Proceedings, Seoul, Korea.
- Wu, C., Yuan, X., **Li, J.\***, Yang, B., 2019. Visual Comfort Evaluation Method and Prediction Model Relating to Discomfort Glare: a Mock-up Study of Luminous Environment in Airplane Cockpit, Oral presentation: CIE 2019, Washington DC, USA.

# Teaching Experience \_\_\_\_\_

Fall 2015	Representation and computation in working memory, Teaching Assistant	Dept of
		Psychology
Spring 2015 Visual Cognition, Teaching Assistant	Visual Cognition Teaching Assistant	Dept of
	visual Cognition, Teaching Assistant	Psychology
Fall 2014	Representation and computation in working memory, Teaching Assistant	Dept of
		Psychology
Spring 2014	Visual Cognition, Teaching Assistant	Dept of
		Psychology

<sup>\*</sup> presenting author; \* mentored undergraduate

Working	and Mentoring		
2016-2018	Eye tracking, EEG and fNIRS methodology and applications in neuroscience studies, neuroscience engineer, ShangHai PsyTech Electronic Technology Co., Ltd	Shanghai	
2016	EEG research methodology and data analysis in MATLAB with EEGLAB toolbox, neuroscience engineer, Guiyang College of Traditional Chinese Medicine	Guiyang	
2015	fMRI data analysis workflow with FreeSurfer in Linux and SPM in MATLAB, student, Dept of Psychology, Southwest University	Chongqing	
2014	EEG data analysis workflow with EEGLAB toolbox in MATLAB, student, Dept of Psychology, Southwest University	Chongqing	
Awards, Fellowships, & Grants			
2017	Excellent Employee of the Year, ShangHai PsyTech Electronic Technology Co., Ltd	Shanghai	
2016	the First Prize Scholarship, Southwest University	Chongqing	
2015	the First Prize Scholarship, Southwest University	Chongqing	
2014	the First Prize Scholarship, Southwest University	Chongqing	
2011	National Encouragement Scholarship, Beijing Wuzi University	Beijing	
2010	National Encouragement Scholarship, Beijing Wuzi University	Beijing	
Professional Development			

## RESEARCH SKILLS

- Rich experience in experiment design and data analysis in acoustical research, lighting research and multisensory research with scientific measurement and technology, including the use of binaural dummy head, SLM, Astro Spatial Audio system, digital audio programming, luminance meter, photometer, integrated with advanced neuroscience and behavior devices including eye-tracker, EEG, fNIRS, etc.;
- Full grounded computer science knowledge and practical experiences, ability to use MATLAB, Python, R, etc. to complete experimental data acquisition and analysis;
- Experienced in general machine learning algorithms for clustering and classification within deep learning frameworks, and proficient in statistical analysis techniques, such as ANOVA, PERMANOVA, LM, GLM, and time series analysis;
- Familar with in 3D modeling workflows and light simulation utilizing Blender and Unreal Engine, encompassing PBR-based modeling and photogrammetry-based modeling techniques.

# **DEVELOPMENT**

**Workshop** Participated: the 1st Southwest University Psychology and Brain Science Academic Summer School, Chongqing **Workshop** Participated: the 2nd Southwest University Psychology and Brain Science Academic Summer School, Chongqing **Workshop** Hosted: EEG Workshop in the 1st China Academic Symposium on "Cognition and Brain Regulation", Shanghai **Workshop** Hosted: EEG Workshop in the 2nd China Academic Symposium on "Cognition and Brain Regulation", Shanghai