

HUA CHAI

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Education

- 2017 - 2018 **Columbia University** | New York, NY
Master of Science in Advanced Architectural Design
- 2012 - 2016 **Lawrence Technological University** | Detroit, MI
Master of Architecture with Distinction, NAAB-accredited
- 2008 - 2012 **Shanghai Maritime University** | Shanghai, China
Bachelor of Engineering, Harbor and Channel Engineering

Research Experience

- 2017 **Interim Habitation** | Reconsider The Architecture of Temporal Habitation with Professor David Moon
Columbia University, New York City
 - Recognizing the genre's pertinence in the context of current political and societal realities and prevalent technological optimism.
 - Consider new ideas and formats of collectivity in the the contemporary milieu.
- 2016 **Research Fellow** | Domestic Spatial Occupation Design with Professor Philip Plowright
Lawrence Technological University, Detroit, MI
 - Conducting social activities pattern research to reinforce the habits of daily lives and provides the background support.
 - Developed parametric tool to represent occupation of residential units and other social activity space.
- 2015 **Ecotarium: Unlimited Lifecycle Design** | A Critical Practice Research Project with Dr. Mitchell Joachim (Terreform One)
Research Fellow, Team leader | Detroit, MI
 - Led team research about a graphic investigation of ecological possibilities within urban design explorations.
 - Probe the possibilities of a merger between synthetic biology and urban infrastructures.
 - Qualified by techno-scientific methods and routines, the result is a true spectacle of ecology made visible through design technology and practices.
- 2013 **Performing City** | Visual Experiment Workshop
Research Fellow | Shanghai & Hongkong
 - Conducted series exhibitions of urban visualization research.
 - Performing spaces with three-dimensional parametric design method.

Honors

- 2018 **End of Year Show** | GSAPP | Columbia University
- 2013 - 2015 **Fine Grain Exhibition** | COAD | Lawrence Technological University
- 2012 **Excellence in Graduation Design** | Shanghai Maritime University

Publication

- 2017 Song, Y. and **Chai, H.** | Mechanical Properties Analysis On Incremental Launching Construction Without Supporting Piers Of Long-span Continuous Steel Truss Bridge. | Acta Technica 62, No. 3B/2017, Institute of Thermo mechanics CAS, v.v.i.

Patents

- 2019 **Chai, H.** | Novel 3D Projection Mapping | Provisional Patent Application in China
- 2016 **Chai, H.** | T-Pattern V1.0 | Computer Software Patent in China | 2017SR605952

Professional Experience

- 2018 - PRESENT **Stamberg Aferiat Architects** | New York, NY | Junior Architectural Designer
 - Working on a variety of projects in residential, hotel, commercial and cultural typologies.
 - Tasked with continually assessing the needs of collaborating in the development of designs.
- 2018 **Sebastian ErraZuriz Studio** | Brooklyn, NY | Multidisciplinary Designer
 - Developing a series of technology based projects including public art installations, mobile applications, and social-political works.
 - Incorporating electronics design capabilities into 3D modeling tools.
- 2016 - 2017 **Harley Ellis Devereaux (HED) - Architects** | Detroit, MI | Architectural Designer
 - Assisting in all phases of the architectural project delivery process from schematic design, through construction documents As part of revit design team, provided advanced revit skills to coordinate with other design strategy.
 - Projects: Cooperate and commercial project, Higher education project, Laboratory project.
- 2015 - 2016 **College of Architecture and Design** | Lawrence Technological University | Student Fellow
 - Produced yearly students' project book-WIP 1.0 and coordinated the college exhibitions.
 - TA at undergrad design studios.
- 2014 - 2015 **Hobbs + Black Architects** | Lansing, MI | Architectural Intern
 - Produced technical drawings for commercial project.
 - Collaborated with structure team in construction phases.
- 2011 **Shanghai International Port (Group) CO.** | Shanghai, China | Engineering Intern
 - Researched and programmed for Yangshan Port Fourth Phase.
 - Assisted the development of port transportation system.
 - Analyzed the geotechnical stress and the methodology of port construction in Hangzhou bay south of Shanghai.
- 2010 **Shanghai Shentong Metro Company** | Shanghai, China | Architectural Intern
 - Metro Transportation Planning & Engineering. Produced technical support and structural analysis for subway line No. 9 Construction.