



Organise

5th EDITION OF WOMEN'S ARCHITECTURE DAYS
**SPACE SYNTAX
IN THE FEMININE**
MARCH 05, 2024



Argument

The seventies saw the development of the theory of "Space Syntax" at the space syntax laboratory, Bartlett School of Architecture and Planning at University College of London (U.C.L), which allows researchers to analyse spatial data in objectively. The theory of space syntax was developed, using analytical tools, to capture the social logic of space (Hillier and Hanson, 1984). Space syntax is a set of techniques for representing and quantifying spatial models (Bellal and Brown, 2003) and "a set of methods and techniques for modelling architectural and urban spaces" (Mazouz, 2013, p. 24). The theory encompasses several techniques based on graphs that enable the representation of spaces of different architectural and urban scales. This representation is then correlated with the various economic, social and environmental data allowing for comprehensive analysis.

Initially, the name of Bill Hillier was associated with a female name, Julienne Hanson, both authors of the famous book "The Social Logic of Space" and recognized as the founders of the space syntax theory during the 1970s.

Several women researchers have utilized space syntax in their architectural and urban research on an international scale, traveling to numerous countries around the world. This list is by no means exhaustive and includes Hillier and Hanson (1984), Hanson and Hillier (1987), Hillier, Greene, and Desyllas (2000), Kubat (2001), Hillier et Vaughan (2007)¹, Al-Sayed et al. (2014)², Van Nes et Yamu (2021)³, and Yamu, Van Nes, and Garau (2021)⁴.

In Algeria, the method was primarily popularized by two professors, Pr. BELLAL Tahar and Pr. MAZOUZ Saïd, through their supervision of master's dissertations and doctoral theses in architecture and urban planning. Additionally, they contributed to the publication of articles and research projects throughout their careers as professor-researchers.

Among the first theses of women architects supported in Algeria, we can mention:

- Pr. BOUTABBA Hinda, 2013: "Spatial specificities and social logic of a new type of domestic housing in eastern Hodna. The "Charpentier" type, University of Biskra;
- Pr. HAMOUDA Abida, 2013, "Evolution mode of popular rural housing in semi-arid regions and the forces participating in its modification. Case of El Kantara", University of Biskra;
- Dr. ZENBOUDJI ZAHAF Samia, 2014 "From the block to the bar Spatial configuration of the urban housing complex Algiers, the Field of maneuvers (1928 / 1958)", Polytechnic School of Architecture and Urban Planning;
- Dr. BOUARROUDJ Radia, 2019, "The feeling of insecurity in housing complexes; analysis of the forms and uses of space: case of the new city Ali Mendjeli Constantine", University of Constantine;
- Dr. LAOUAR Dounia, 2019, "The spatial configuration of open urban public spaces and user behavior: visual accessibility, security and co-presence. Case of the town of Annaba. »

¹Hillier et Vaughan, The city as one thing, Progress in planning 67 (3), 205-230

²Al-Sayed, K., Turner, A., Hillier, B., Iida, S., Penn, A., Space syntax methodology Bartlett School of Architecture, UCL: London, UK

³Yamu, C., Van Nes, A, Introduction to space syntax in urban studies Springer Nature

⁴Yamu, C., Van Nes, A., Garau, C, Bill Hillier's legacy: Space syntax—A synopsis of basic concepts, measures, and empirical application Sustainability 13 (6), 3394

This Algerian female community continues to expand to welcome new researchers using space syntax in their research: Bendjedidi Souhaila (2019), Wiem Zerouati (2020, 2022), Baya Belmessaoud-Boukhalfa (2022), Selma Saraoui-Attar (2022). This enthusiasm is possibly linked to the countless possibilities, tools, and methods of space syntax available to researchers for exploring various urban, architectural, social, economic, and environmental questions. What motivates these female architect-researchers to choose space syntax in their scientific work?

This scientific event is intended to pay tribute to researchers who are exploring new avenues of research using space syntax, both internationally and nationally. The guests will have the opportunity to recount their scientific journeys, their research using space syntax at different urban and architectural scales, and discuss: what lies in the originality of their scientific work, their achievements, and the challenges they have faced?

Topics

Topic 1: Space syntax, retrospective of research work, difficulties and challenges

Topic 2: Space syntax as a tool for analysing built heritage

Topic 3: Space syntax and the exploration of atmospheres in architectural spaces

Topic 4: Space syntax for gendered urban studies



Scientific committee

Dr. Wiem ZEROUATI – Event Chair – LHE- IAST – UFAS 1

Dr. Assia SAMAI-BOUADJADJA – Senior Lecturer – LHE- IAST – UFAS 1

Dr. Nassima BAZIZ – Senior Lecturer – LAE- IAST – UFAS 1

Mme Amel KENTACHE – Assistant-Professor – LHE- IAST – UFAS 1

Mille Khaoula HANNACHI, PhD Student - Lab ETAP - IAU - University of Blida 1

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Dr. Ali RAHMANE – Head of the architecture department

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Dr. Wiem ZEROUATI – Senior Lecturer – LHE- IAST – UFAS 1

Dr. Mehdi ALIKHODJA – Senior Lecturer – LHE – IAST – UFAS 1

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Mrs. Asma DJEFFAL – Assistant-Professor – LHE- IAST – UFAS 1

Mrs. Imen ADIMI – Assistant-Professor – LHE- IAST – UFAS 1

Mrs. Nour el Houda BOUCHENAK – Assistant-Professor – LHE- IAST – UFAS 1

Mrs. Houria TALI, Assistant-Professor, IAST – UFAS 1

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Miss Hadjer ABABSA, PhD Student, LHE, IAST – UFAS 1

Miss Tenhinane AMRANI, PhD Student, University of Biskra

Miss Ismahane NAAS, PhD Student, Université de Batna

Audio-visual service

Scientific Students' Club « **Sirius Club** »

Exposition

Thematic posters to popularize space syntax: concepts, tools and methods.