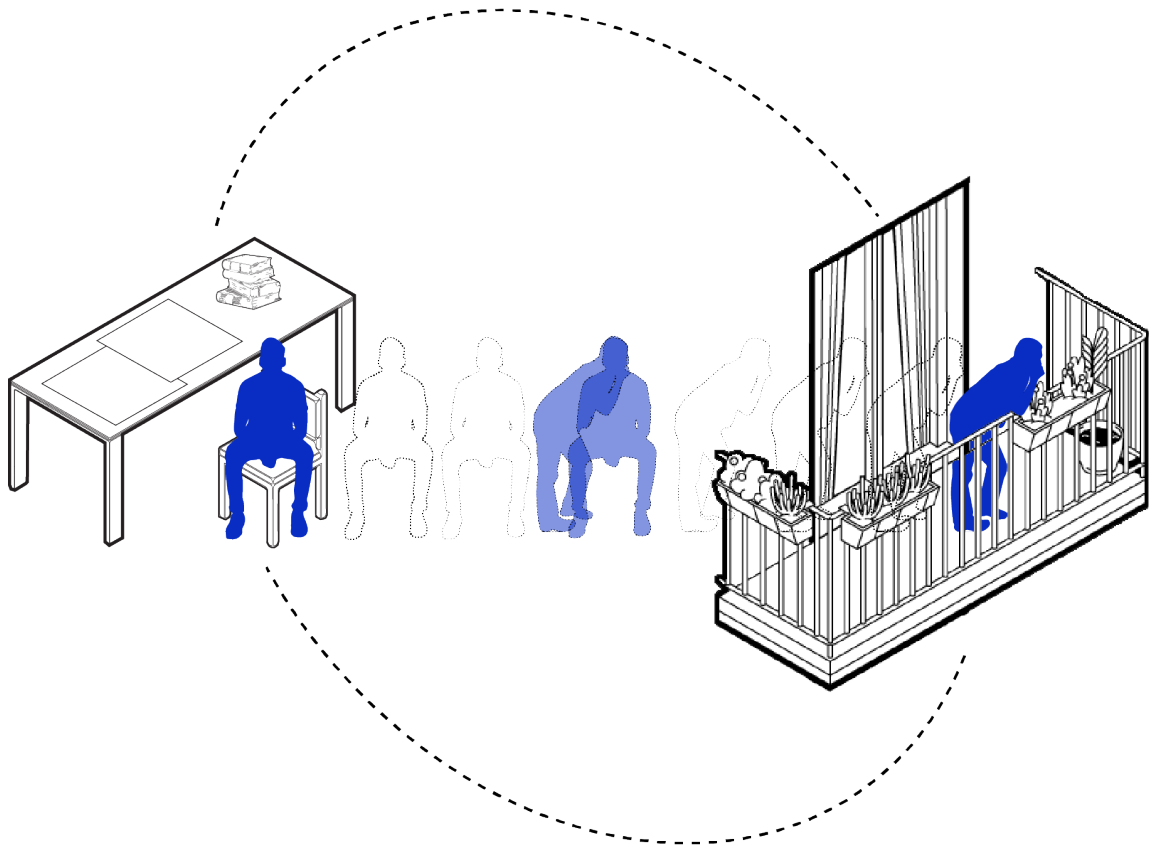


Research Plan

Learning from Amateurs

How Madrid Balcony Usage
can Instruct Architects



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Architectural Design Crossovers Graduation Studio 2023/2024

Delft University of Technology

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An amalgam of words, terms, subjects, and references that I am interested in to guide my research and eventually project.

Inquiry Words

Terms

Adaptive Responses	Expression	Multi-Disciplinary
Adjustments	Extrospection	Participation
Appropriation	Flexibility	Private and Public Life
Architecture as a Tool	Individualism	Regulation Limitations
Behavior	Interaction	Relational
Community	Interrelationship	Resourcefulness
Efficiency	Maximalization of Space	Routine and Daily Life
Environmental Psychology	Micro-Interactions	Utility

Theories and Methodologies

Activity Space Theory	Interactive Observation
Actor-Network Theory	Mental and Physical Relation to Space
Adjustable Design	Participatory Action Research
Affordances	People-Place Theory
Complex Systems Theory Applied to Human Behavior	Perceptual Psychology
Designed versus Undesigned	Phenomenology
Extinction of Experience	Socialization Theory
Intentional Design	Sub-Cultural Anthropology

References and Sources

Architects	Professors / Researchers
Cooperative Housing	Regulation Enforcers
Flats and Apartment Buildings	Shared Living
Inhabitants and Building Users	Social Housing

Introduction

An abstract of my project featuring the core fascinations and problems that have led me to my research proposal.

1. Housing surveys regarding user satisfaction conducted by The Instituto Nacional de Estadística (INE).
2. Alkemade, Floris. *Rewriting Architecture : 10+1 Actions : Tabula Scripta / Floris Alkemade [and Three Others] (eds.) ; with Contributions by Floris Alkemade [and Twenty-seven Others]*. 2020. Print.
3. Jury-rig (verb), to erect, construct, or arrange in a makeshift fashion (Merriam-Webster).
4. Madrileño (noun) a native or resident of Madrid, Spain (Merriam-Webster).
5. Origoni, Matteo, and Carlotta Origoni. "A Brief History of the Balcony: From Ancient Persia to the Covid-19 Pandemic." *Domus*, Italy, *Domus*, 3 Apr. 2020,
6. Werthmann, Christian. "Informal Urbanism - Habitat Universities Thematic Hub." *United Nations: Habitat*, United Nations, 2014.
7. Perez, Mary. "Extrospective design: Exploring how immersive observation and empathy exercises could improve the architectural design process." TU Delft, 2023.

Our physical interactions with surrounding spaces are key indicators exhibiting how individuals adjust to their given environment and spatially navigate their lives. However, there have been numerous accounts of **inhabitants being dissatisfied** with their spaces and in some instances have created **'make-shift adjustments'** to adapt their surroundings to suit their needs; which in theory should not be necessary because it is the architect's responsibility to design efficient and **user-catered** spaces (Alkemade, 2020).² Whether it be in private or public settings, the user's **'jury-rigged'**³ adaptations to existing architectural conditions can provide valuable insight for architects. The concept of **user observation** is the main project inspiration and poses the following questions: How do user's **adjustments, spatial interactions** and **affordances** on their balconies reveal more embedded issues within housing design? How can **post-occupancy observation** and engagement with current inhabitants assist architects in designing better buildings?

Though this research approach can be practiced on an array of architecture projects, I will be applying it to shared housing and flat design. This typology has a rich overlap between an individual's public and private life and can be especially relevant to the lifestyle of **Madrileños**.⁴ Of all the apartment qualities, **balconies** have the most unique merge of public and private, indoor and outdoor, and luxury and utility qualities.⁵ Balconies host numerous household dynamics and have become a necessity and cultural staple. These **'floating spaces'** are used freely and have been **appropriated** to accommodate a wide range of programs by the users; observing balcony spatial adjustments can be an insightful approach to teach architects about how people currently and want to live. This project will investigate these **'informal urbanistic'**⁶ approaches through cross-disciplinary research methods to exercise whether user observation and interactions have the potential to create a new design approach and create an improved user-centric flat. These **'spatial manipulations'** are, in a way, temporary solutions created by users to make their surrounding spaces function for their **needs** and **lifestyles**. Learning from the occupant's balcony **modifications** can reveal more **embedded issues** within housing design. I view this project as an extension of my **MSc2 thesis**⁷ and will apply similar **cross-disciplinary research methods** to explore if a more **personalized** and **attentive** design process can have a big impact on the resulting design and the user. This project will explore how this research approach can benefit architecture and propose architectural solutions that **authentically** cater to its inhabitants.

Keywords

Balconies, Housing, Flats, Madrid, Usage, Spatial Adaptability, Informal Urbanism, Interaction, Behavior, User to Architect Relationship



balcony to pool
source: natezomby

<https://www.demilked.com/terrible-balcony-designs/>



balcony to urban jungle
source: Denys Vinson

<https://www.demilked.com/terrible-balcony-designs/>



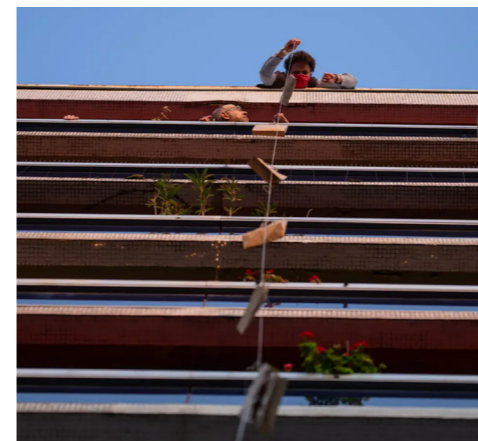
balcony to satellite hub
source: stereotip3

<https://www.demilked.com/terrible-balcony-designs/v>



balcony to balcony dinner
source: @Beautiful Italy

<https://www.facebook.com/my.beautiful.italy/photos/a.299987946818239/2333353410148339/?type=3>



balcony to easter gift collection point
source: Barcroft Media/Getty Images

<https://www.insider.com/photos-show-creative-ways-people-used-balconies-during-lockdown-2020-4#easter-was-celebrated-unconventionally-15>



balcony to political expression
source: Pau Barrena/Alp

<https://www.bloomberg.com/news/articles/2021-02-05/barcelona-s-new-plan-to-regulate-vacation-rentals>

The following is an amalgam of balcony appropriations found in apartment buildings. Though extreme at times, analyzing and understanding these modifications can potentially direct architects to the deeper embedded issues within architecture and can lead to more user-centric housing proposals.

Theoretical Framework

The essence of my research and all of the key concepts, theories, and factors that combine to form the foundation of my project. These core concepts have generated a series of major and minor research questions as well as a diagram illustrating the user and architect dynamic.

1. Kennett, Earle. "Post Occupancy Evaluations." *Whole Building Design Guide*, www.wbdg.org/resources/post-occupancy-evaluations. Accessed 18 Feb. 2022.
2. EVIA, "Indoor Air Quality." *The European Ventilation Industry Association (EVIA)*, EVIA, 2023.
3. AIA, American Institute of Architects. "AIA 2030 Commitment by the Numbers: Post-Occupancy Evaluation." *The American Institute of Architects*, 2023.
4. Dewey, J. (1938). *Experience and education*. New York: Macmillan.
5. Dewey, J. (1897). *School Journal* vol. 54 (January 1897), pp. 77-80 <http://dewey.pragmatism.org/creed.htm>
6. Tversky, Barbara (2019). *Mind in Motion: How Action Shapes Thought*. Hachette UK.

1.1 Theorizing the Architect and User Disconnect

Though the project's construction is complete, the architect's work is not. According to the National Institute of Building Sciences (NIBS), **Post-Occupancy Evaluation**, or POE, evaluates an existing building by conducting "inspections/walk-throughs of the building to investigate elements, systems, and subsystems" (Kennett, 2021)¹. Typical POE protocol consists of building **performance** and **efficiency** tests that highlight past **design faults** and other unsuspected issues; Though thorough, POE is less attentive to **user satisfaction** on a **personal** level¹. Noting the occupant's **interaction** with and **opinion** of the space is valuable and crucial considering that "Europeans spend **90%** of their time indoors, inside buildings" (EVIA, 2023)². Though architects are encouraged to perform POE during the **post-construction period**, it is unfortunately **rare** and typically viewed as an 'extra service requiring extra fees' that owners are not enticed to pay unless necessary (AIA, 2023)³. If POE was mandatory and better **embedded** into the design process, it could provide a rich opportunity for architects to **learn** from their past and improve their practice - but most importantly, it can improve the building for the **occupants**.

In fact, psychologists have proven that implementing more **personal** and **interactive** methods, such as conducting post-occupancy assessments, can be one of the most effective ways to learn and retain information (Dewey, 1938). The **John Dewey theory**, popularized as the **learn-by-doing** approach⁴ to teaching, is centered around experience and involvement with those who are **directly affected** by the issue at hand⁴. Dewey elaborates how it "must represent present life - life as real" and it is only through experience that the analysis and application process of this knowledge can occur (Dewey, 1897)⁵. If this procedure were to be implemented into the architectural design context, architects could emulate the client's **behaviors** through **interactive observation** processes. Thus, this paper explores the possibility of integrating another step into the post-occupancy evaluation process: user observation in regard to **spatial appropriation**.

Though discussion provides a quick way to receive information and opinions, psychologists have proven that it is through actions, not words, that provide the most valuable insight (Tversky, 2019)⁶. In "Mind in Motion: How Action Shapes Thought", Tversky explains how our **physical** relationship with the world is just as strong, if not stronger, than our ability to construct concepts in verbal communication. Actions are initial, **innate**, and **raw responses** to our surroundings and indicate how an individual perceives the built environment. To better understand how **human observation** can influence design, it is important to first understand how design is **interpreted by humans**.

The **theory of affordances** was proposed by James Gibson in 1969 stating that action is informed by an individual's surrounding objects and environments (Banham, 1969)⁷. Affordance emphasizes that **perception** follows action - meaning architecture informs perception; however, **interpretation** of architecture can't always be anticipated.

As a result of non-user-catered designs, users have taken matters into their own hands and implemented **spatial appropriations** to **adjust** their existing conditions to their likings and needs. The way we interact with our spaces, whether that be through spatial **usage** or **layout**, reveals how we **manipulate** our spaces to work best with our **brains**. Understanding these modifications can direct architects to the more embedded issues within housing and can lead to more **user-centric housing** proposals. Through these **psychological** and **theoretical** perspectives, my research and practice aim to determine what degree this can be applied to architecture without **overgeneralizing** or **specifying** as well as to what extent can this process be **replicable** (illustrated on my 'theoretical framework diagram' on page 12). Though this more **intimate approach** to design can form **personalized** results, to what degree should architects integrate observations from the building users into housing projects without designing something that is too niche and can be applied to a wider audience? Architecture, especially housing, must account for a multitude of individual needs and leads to the inevitable generalization of their subject; and in the case of this project: the Spanish apartment and flat occupant.

According to Eurostat, "**two-thirds** of all Spaniards live in flats" which is the highest percentage out of all countries in the European Union (Jones, 2022). Despite the fact that more people are living in apartments and flats, balcony presence has decreased dramatically over the past years, the majority of "newer apartment buildings in Spain are built without balconies" (Local, 2023)⁸. The main reasons for the decrease in balconies are **space limitations** and **increased cost** per square footage⁸. Spanish **culture** embraces an '**out of home**' social scene in the town - which is interestingly one of the balcony's initial purposes. In fact, balconies have been used throughout history as semi-private¹⁰-public outdoor and indoor spaces that carry **social** and **cultural** significance - clearly exhibiting qualities present in Spanish culture and lifestyles¹⁰. In a sense, these spaces bridge the **comfort** and **privacy** of the home with the rambunctious **spontaneity** of city life. Those who do have balconies **appropriate** these spaces as gardens, storage, laundry, dining spaces, or even political platforms to **publicly display** their opinions. Despite personal approaches, there are many similarities in how users **adjust** to the space and provides insight as to how the occupants currently **want the space to function**; and the architectural feature that has most evidently **evolved** and **appropriated** is none other than the balcony.

7. Banham, R., P. Barker, P. Hall, and C. Price. "Non-Plan: An Experiment in Freedom." *New Society* 13 (1969): 338. Web.
8. Jones, Jessica. "Why Flats Dominate Spain's Housing Market." *BBC Worklife*, BBC, 28 Feb. 2022, www.bbc.com/worklife/article/20200506-why-do-flats-dominate-spains-housing-market.
9. The Local, "Why Do Many Spanish Apartments Not Have Balconies?" *The Local Spain*, The Local, 4 Apr. 2023, www.thelocal.es/20230405/why-do-many-spanish-apartments-not-have-balconies.
10. Origoni, Matteo, and Carlotta Origoni. "A Brief History of the Balcony: From Ancient Persia to the Covid-19 Pandemic." *Domus*, Italy, Domus, 3 Apr. 2020.

Theoretical Framework

10. Origoni, Matteo, and Carlotta Origoni. "A Brief History of the Balcony: From Ancient Persia to the Covid-19 Pandemic." *Domus, Italy, Domus*, 3 Apr. 2020.

12. Cambridge Dictionary. <https://dictionary.cambridge.org/dictionary/english/balcony> <https://dictionary.cambridge.org/dictionary/english/balcony>

13. Daybell, James, and Sam Willis. *Balconies!, Histories of the Unexpected*, Apr. 2020.

1.3 Introduction of Balconies: The Lens into the Issue and Solution

Balcony (noun) *an area with a wall or bars around it that is joined to the outside wall of a building on an upper level.*^{10, 11.}

Though the definition of a balcony has specific **built requirements**, its **non-program-defying** quality results in a **flexible** space that has been appropriated, throughout history and literature, into a wide range of uses. Balcony uses vary from **political** to **theatrical** and their **representation** ranges from **luxury** and **leisure** to **efficiency** and **practicality**.^{13.} Not only do balconies face the exterior, but they are also featured in the interior in the form of a **gallery**.^{10.} Moreover, balconies serve as **environmentally responsive** spaces such as a natural passive cooling system, ventilation, and sunlight increase.^{10.} These **'suspended spaces'** unite an individual's private setting with the bustling public street life - becoming a vessel for **lifestyle expression**.

Apartments and shared living complexes have a strong history of **cultivating social interactions** and even the pandemic's 'stay-at-home' order proved that being confined to our spaces could not hinder social agendas. For many, it has been anything but limiting to what the home could be.^{13.} **Quarantine** has challenged occupants' creativity and capability to adjust their given spaces to the full extent - especially the balcony; A balcony can be a playground, office, gym, garden, or theatre. People's needs and lifestyles will continue to evolve and so will balconies.^{13.} Therefore, it is crucial that surrounding spaces spatially support the inhabitants through a more **personalized** and **user-centric** design and research approach.

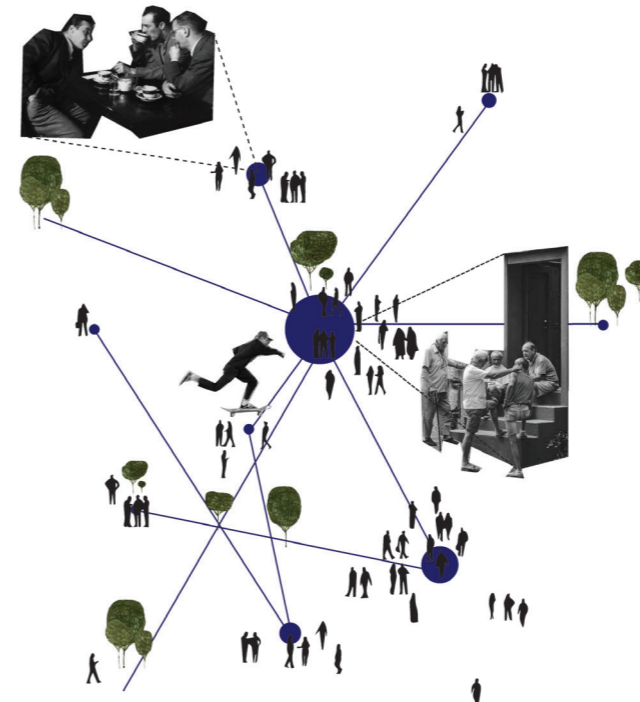


Many cities' historical balcony cultures have been immortalised in art and literature, such as in Elena Ferrante's Neapolitan Novels (Credit: ilbusca/Getty Images)

It is through this research that I am seeking to understand the major and minor research questions I propose on the following pages. What my project aims to do is best outlined in the introduction of Bruno Latour's "Reassembling the Social- An Introduction to Actor-Network-theory":^{14.}

"[An architect's] task is no longer to impose some order, to limit the range of acceptable entities, to teach actors what they are, or to add some reflexivity to their blind practice", but "to follow the actors themselves, that is try to catch up with their often wild innovations in order to learn from them what the collective existence has become in their hands, which methods they have elaborated to make it fit together, which accounts could best define the new associations that they have been forced to establish".^{14.}

The below conceptual diagram integrates Latour's theoretical approach and depicts an abstracted area of Madrid that interconnects the local's **appropriation** of their surroundings and how these interactions reflect Madrid's individual, social, and cultural relation to architecture and its citizens. In other words, a visual representation of the **Actor-Network Theory** is applied to balcony appropriations and their users. A diagram like this^{14.} clearly presents the **location, usage, and user** from my findings and will aid in the **'collection and analysis'** process of the research - which I will further explain in the 'methods and methodology' section. my proposal.



Initial Conceptual Mapping Diagram displaying the type of analytical technique and research I will integrate (Perez, 2023).

14. Latour B. (2005) *Reassembling the Social- An Introduction to Actor-Network-theory*, Pages 11 and 12

Main Research Questions

The following research questions are the overarching intentions and curiosities that will guide my research. The first question is my guiding question and the following are sub-questions that will inspire my project proposal.

Main Problems

- 1 How do the user's adjustments, spatial interactions and affordances on their balconies reveal more embedded issues within housing design?
- 2 How can post-occupancy observation and engagement with current building users assist architects in designing better buildings?
- 3 To what degree should architects integrate observations from the building users into housing projects without designing something that is too niche and can be applied to a wider audience?

The following questions have been separated into two sections: Architect and Building User. These are the questions that will guide the flow of my research and final project intentions.

Minor Research Questions

Architect

- 1 What are the factors that hinder architects from designing user-attentive architecture that is most genuine and curated for its users?
- 2 To what extent should architects integrate these user observations into projects to create authentic and applicable architecture to all users?
- 3 How can analyzing balcony appropriations inform architects in the design process? How can these observational findings be implemented into the design?
- 4 What defines the 'perfect balance' of a designed yet undesigned space? In other words, housing that addresses programmatic needs yet flexible enough to be adapted by all users.
- 5 In what ways do external factors, such as project budgets, client expectations, and regulations placed on the built environment, effect how 'user-centric' architects can make a housing project?
- 6 Are there any instances of specific building codes that have regulated architect's creativity or impeded inhabitant's actions and lifestyles?
- 7 What are some instances that architects creatively coped with the rules and proposed architectural solutions for the user's benefit?
- 8 Considering practicality and the concept of 'design-versus-undesigned', is it better to propose a solution that is catered to the determined design issue or to propose a solution that provides the tools and site flexibility for the user to create a unique and personalized solution?

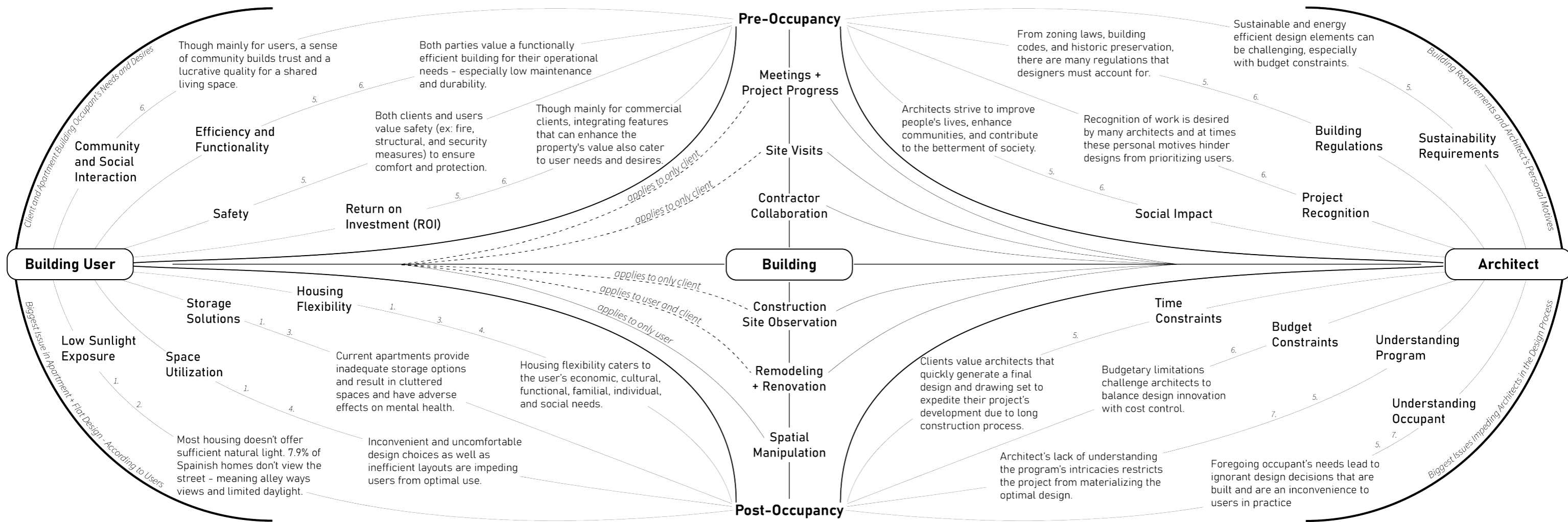
Building User

- 1 What specific adjustments have users made to their limited housing situations in Madrid? Is this a response to poor design? To the environment? To other people? To themselves and their lifestyle?
- 2 Flats in Madrid have a history of being social hubs, how can flats further embrace these social qualities?
- 3 What are the current ways that building occupants have been informing architects of their preferences and needs?
- 4 Would the results of my research and project proposal actually help people live authentically? Or would it impede users from their already accustomed adaption to space?

Theoretical Framework: Diagram

Architect to Building User Relationship Intersections and differences in the factors, issues, contributions, and goals between architect and user. Comparing the architect's unifying role in the design process and the qualities, feelings, preferences, and emotions that the users experience. The diagram notes the difference between 'client' and 'user' through the means of dotted and filled lines (in the central part); That the client is not always the user and the user not always the client.

Diagram Significance This diagram unites the psychological and theoretical perspectives and sources outlined in my theoretical framework. The information is presented as a combination of a venn-diagram and a 'line-to-word' association piece to provide a detailed and clear dissections of the user to architect relationship.



1. Gong, Wenye, et al. "Talking about Problems and Countermeasures of Small-Sized Apartments Design." Research Gate, Kaifeng University and University of Illinois at Chicago, 2017, www.researchgate.net/publication/314781554_Talking_about_Problems_and_Countermeasures_of_Small-sized_Apartments_Design.

2. Idealista. "El 8% de Los Hogares Españoles Está Pasando El Confinamiento Sin Ver La Calle Desde Su Vivienda." Idealista News, 22 May 2020.

3. Lopez, Carlos Nuno L, and Sabine Ritter de Paris. "Housing Flexibility Problem: Review of Recent Limitations and Solutions." Science Direct, University of Porto, 1 Mar. 2018, www.sciencedirect.com/science/article/pii/S2095263517300742.

4. Housing surveys regarding user satisfaction conducted by the Instituto Nacional de Estadística (INE).

5. Franck, Karen A., and Howard, Teresa Von Sommaruga. Design through Dialogue : A Guide for Clients and Architects / Karen A. Franck, Teresa Von Sommaruga Howard. Chichester, West Sussex, U.K.: Wiley, 2010. Print.

6. Pressman, Andy. Curing The Fountain Headache: How Architects And Their Clients Communicate. 2nd ed., Sterling Publishing Co., 2006.

7. Brand, Stewart. How Buildings Learn : What Happens After They're Built. Viking, 1994

Methods + Methodology

2.1 Introduction of Methods and Methodology

1. Alkemade, Floris. *Rewriting Architecture : 10+1 Actions* : Tabula Scripta / Floris Alkemade [and Three Others] (eds.); with Contributions by Floris Alkemade [and Twenty-seven Others]. 2020. Print.

2. Perez, 2023. "Extrospective Design: Exploring how Immersive Observation and Empathy Exercises Could Improve the Architectural Design Process"

The main **inspiration** guiding the methodological approach in 'Learning from Amateurs' is best summed in these words:

"...give up your technical attitude and try to understand the other person for whom you are creating something".

Jim van Os, *Rewriting Architecture: 10+1 Actions* (2010), pg. 315.

Jim van O is a psychologist whose interest in humans in the built environment, with his project 'The Healing Environment', has guided his research and posed the occupant's **needs, desires, and feelings** as the **main priority** (Alkemade, 2020). It is this lens that has prompted my integration of numerous **cross-disciplinary** research methods and **combined** components of each to form a unique position that balances **qualitative** and **quantitative** means. The proposed method will form a concrete research approach that organizes these at first **case-specific** and **unique** findings into an **analyzed, structured, and supported** understanding of occupants.

The core of my methodology stems from my MSc2 thesis titled '**Extrospective Design**'₂ where I researched how the methods and research approaches used by **method actors** could be applied to the architectural design process to make architecture more **authentic** and **user-centric** (Perez, 2023). A more detailed summary of the paper can be found on pages 18 and 19. 'Learning from Amateurs' will exhibit a similar level of **observation, patience, and social presence** through the integration of the following methodologies.



Martin Parr, "Black Sea, Yalta, Ukraine, 1995" (1995) (image courtesy Martin Parr: Magnum Photos)



Martin Parr, Martin Parr Foundation, UK, 2012 (image courtesy Martin Parr: Magnum Photos)

2.2 Proposal of Methods and Methodology

Participatory Action Research (PAR) is a framework established in the 1940s and it prioritizes the **active involvement** of those **most affected** by the subject of research (Lewin, 2023). Having the subject at the forefront of the research and having their **opinions shape** the research questions, design, methods, and analysis approaches would embrace user-centricity (Lewin, 2023). The context specificity of the PAR methodology will be exhibited through my interviews, photographs, and research gathering. Besides applying these established and proposed methods, I will be heavily emphasizing the **observation** aspect of this process, particularly through **photography** and **diagram-making**.

Throughout my **site visits, interviews, and city wonderings**, I will be **photographing** an array of balcony appropriations found throughout flat and apartment buildings. Photography is a **unique** data collection method that displays **raw authentic** conditions and encapsulates the **personal qualities** that my project relies on. The photographers with styles that I believe would best represent my findings are Martin Parr, Joel Meyerowitz, and Markéta Luskačova. Their photos are incredibly **human-centric** and are **honest reflections** of the subject's **personality** and location's **ambiance** - all qualities that I want my project to embrace. Martin Parr, in particular, has a way of creating such personal photos without revealing people's faces; this **candid approach** brings the **actions and interactions** with the surroundings of the individual, rather than them, to the forefront of the photo. I will be primarily photographing the spatial interactions between building users and the architecture. The following is a checklist of potential **lenses** and expected points to **guide** my observational direction and assist in my **site exercises**. These are the projected observations I suspect to encounter in my field studies to begin my observation process and lead to **unforeseen patterns**.

Balcony Appropriation 'Observation Checklist'

- Level: lower floors compared to higher floors 1
- Location: comparing different areas of the city 2
- Price: more expensive apartments and flats versus more affordable 3
- Occupant Type: families versus singles versus couples 4
- Age range: children versus adults versus elderly 5
- Design: comparing existing conditions of balcony designs 6

3. Lewin, Kurt. "Participatory Action Research." Carleton Faribault, 2023. <https://participatoryactionresearch.sites.carleton.edu/about-par/>

Methods + Methodology

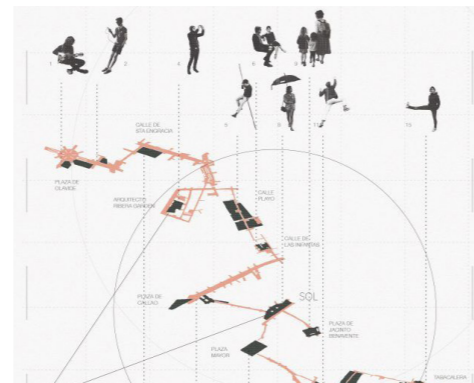
4. The 'guerilla style' interviews are engaging in impromptu conversation in public spaces.

After collecting the images, I will assemble a '**catalog of balcony appropriations**' and categorize my findings to identify the most common and unique cases. The **catalog** will be an organized compilation of balconies that **compare and contrast** through purpose, location, design, and user spatial manipulation. Organizing my findings in this way will highlight the most common appropriation tactics and from each unique approach I will be able to draw educated conclusions. I will be incorporating the information sourced from interviews with the locals to gain insight into why they are adapting their space in that way. This catalog approach also brings an **analytical** and **systematic perspective** on an otherwise **case-by-case** specific and **qualitative** topic. The result will be an **in-depth analysis** combining, dissecting, and cross-analyzing the information with **historical, theoretical, and psychologically** acclaimed sources to make conclusions regarding the relationship between **user appropriation** and **unexposed design issues**. Below are two examples of graphic and mapping inspirations to present my findings.

Besides **observation** and **photography**, I have arranged to **interview** friends of my friends who live in **apartment** and **flat** buildings in Madrid. One of the interviewees is a **woman** in her mid-20s and the other interviewee is a **family** of four. Having two vastly different **demographics** in my interview pool provides more insight into spatial appropriations varying in **age, location, profession**, and more. Though I will learn a lot from these interviews, it is important that I'm **mindful** of these **subject-specific findings** and to not generalize from conclusions. Since **over-generalization** in design is one of the pitfalls in the existing housing design process, my project strives to **balance** personalization and generalization beginning with this methodology and information-gathering phase.



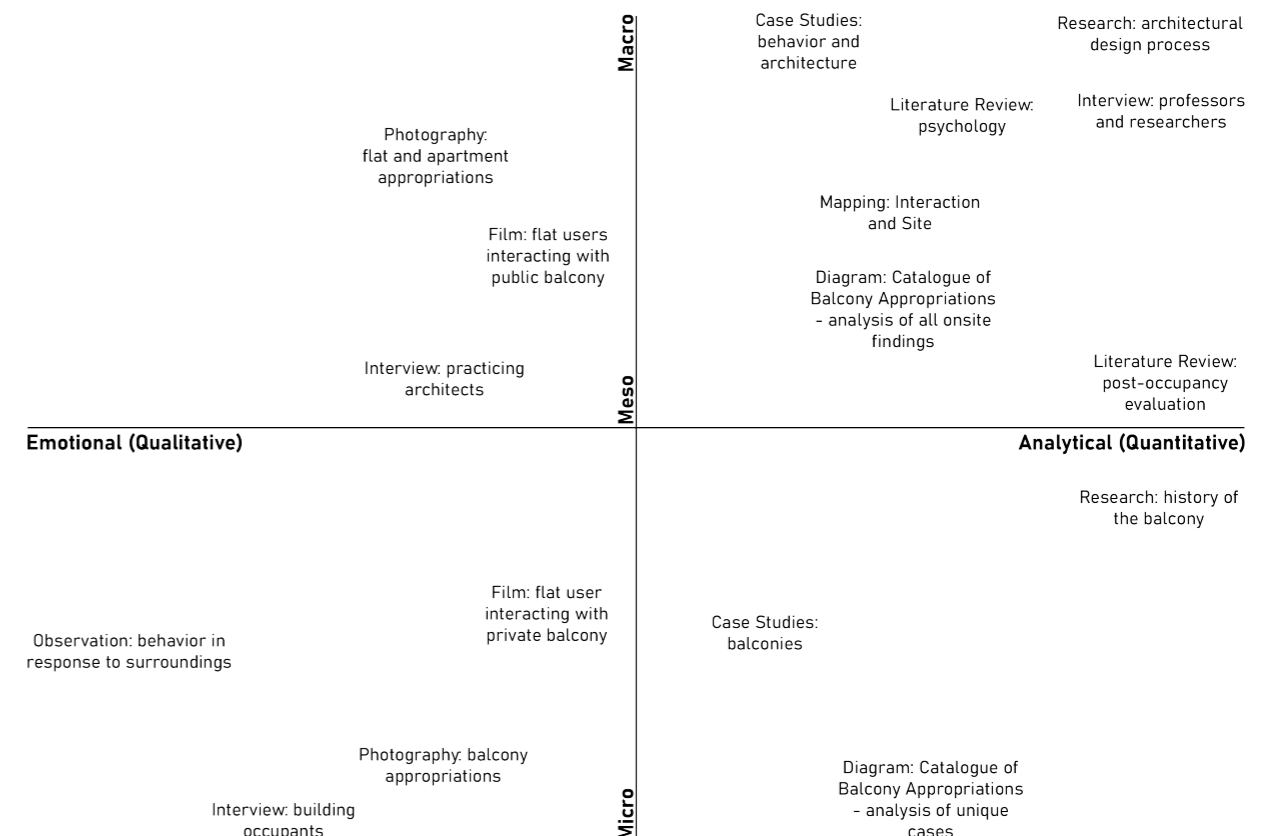
Graphic and Content Inspiration for Catalogue Dutch Atlas of Vacancy, RAAAF Architects https://www.raaaf.nl/en/projects/535_dutch_atlas_of_vacancy/542



Graphic and Mapping Inspiration for Research Architecture: A Monument to Present, Koozarch <https://www.koozarch.com/interviews/architecture-a-monument-to-the-present>

Besides these organized interviews, I also plan to implement '**guerilla interviewing**' strategies, such as asking subjects in locations near apartments and flat **blocks**, like **parks** and **cafes**, and asking about their balconies, utilization of space, and what they like and don't like about their apartment designs. I must be diligent about selecting the right **time of day**, and **location**, and have prepared **short and structured questions**. Also, If there is a balcony low enough and the user does not seem busy, I plan to ask for a moment to chat with me from their balcony for a spontaneous interview. Besides interviewing building users, I plan to ask the architecture professors at the University about their **opinions, findings**, and experiences regarding this topic. I have prepared questions for both interview target groups which can be found on pages 20 and 21.

The following diagram illustrates the aforementioned proposed methodological frameworks through an **x-and-y graph** combining methods, approaches, and tools at the **macro, meso, and micro**-scale (on the y-axis). This diagram displays the breadth of my research methods in terms of **analytical** to **emotional** (or **quantitative** and **qualitative**), on the x-axis, to project my strive for occupant-attentiveness. The illustration also explains how the same method could even apply to a different quadrant, such as photography.



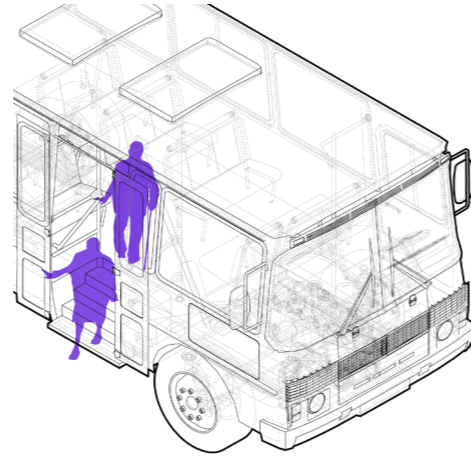
Methodological x-y graph diagram displaying the techniques and methods I will integrate (Perez, 2023).

Methods + Methodology

My MSc 2 paper and case study that include methods and research approaches that I want to further study and integrate similar lenses into 'Learning from Amateurs'.



Left The Seniors Project (14), 1999, Solomon R. Guggenheim Museum, New York Gift, Danielle and David Ganek, 2003. Image Editing: Perez, 2023



Right Isometric Analysis Drawing of 'The Seniors Project (14)' (Perez, 2023)

1. "Extrospective Design: Exploring how Immersive Observation and Empathy Exercises Could Improve the Architectural Design Process"

My MSc 2 paper investigates the origins of the issues within the client and architect dynamic and dissects reasons for miscommunication. With this understanding, I researched how method actors approach empathy and effectively communicate the physical and emotional aspects of their character. In dissecting the core elements of 'the method', I applied these guidelines to a more realistic example through the case study of Nikki S. Lee in her work *Projects* (1997 - 2001) to see how these method techniques can be applied in realistic scenarios. Moreover, I applied these tactics to the client-architect dynamic and its ability to improve the way humans empathize with each other. I analyze the works of Nikki S. Lee and dissect her multidisciplinary approach and creative process to understanding subcommunities. Through analyzing the photographs of *Projects* (1997 - 2001), I explore the process's potential application to the initial architectural design phase. Through my research, I investigate how these cross-disciplinary approaches could aid in the design process to effectively create more responsive and useful spaces.

Thesis can be read here:

<https://repository.tudelft.nl/islandora/object/uuid%3A988fa22c-36b7-4843-9c05-64b448ec6263?collection=education>



Left <https://www.mutualart.com/Artist/Nikki-S--Lee/E4EB4438078766B3/Artworks>



Right <https://www.mutualart.com/Artist/Nikki-S--Lee/E4EB4438078766B3/Artworks>

Projects (1997 - 2001) by Nikki S. Lee

Over the course of a few years, Nikki S. Lee joined numerous groups of selected sub-communities and fully embraced the culture and lifestyle required to be in that subgroup and became a version of herself that would belong in that subgroup. From this study, it teaches us that through careful observation we can develop design solutions that are tended to these subgroups and can be applied to design improvements all over the city. I concluded that method acting techniques are evident through the work of Lee's interactive observer approach and has potential for being extrapolated and integrated into the initial stages of the design process. Furthermore, Lee's exploration of perception proves that it is difficult for architects to solely design buildings based off observation - it is pivotal that architects engage deeper. Doing so would guide architects to prioritize the specific routines, rituals, lifestyles, habits, and necessities of the prospective inhabitants into her or his design process. Integrating multi-disciplinary medium strategies into the process has proven successful in advancing other fields and is logical if architects do so as well. I believe that integrating field work techniques can bring a physical and spiritual understanding of others. I want to implement this into my design process because I want to see if it has the potential to avoid miscommunication between the two parties (architects and users) and generate unique and catered design solutions that support the users in living authentically.

Methods + Methodology: Interview Questions

Architect / Professor The following questions address the main points of my research and are more Madrid and Spain specific questions since I will be on-site. I plan to interview the professors at the university, a practicing architect, and locals. Questions and answers will be translated.

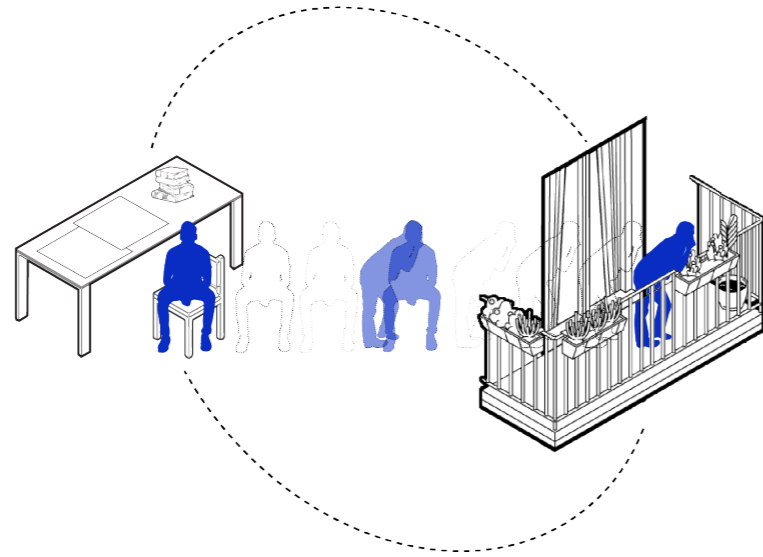
Architect / Professor

- 1 As an architect, is it possible to find a balance between designed and undesigned spaces?
- 2 To what extent can we personalize architecture so it is able to adjust to anyone and still be applied to all users?
- 3 What is the relationship between income/budget and how much the architect accustoms to the client's needs?
- 4 How to create architecture that is affordable, to create housing that can fit lots of people but can also not only host people but allow them to live in these spaces comfortably, and authentically?
- 5 Maybe we are not able to change the code because of the many years put into practice and for safety and historic preservation purposes. But what are some ways and examples where architects creatively coped with the rules and proposed architectural solutions?
- 6 Would it be possible to create architectural solutions that are permanent/helpful enough for all users yet flexible enough to be personalized?
- 7 How does being observant of the user's make-shift adjustments to the space tell the designers about how spaces should instead be designed?
- 8 Can being observant of the user's 'make-shift' adjustments to the space inform the designers how to design? How can we implement these observational findings into designs?
- 9 Are there any projects or readings that you suggest for my research?
- 10 Do you think that (*insert name of specific architectural feature*) has any current issues and has the potential to be re-evaluated and re-designed to better suit the needs of the clients?
- 11 Are there any codes or regulations that are specific to Spain or Madrid that you have restricted you or your designs from being able to create the most user-centric design?

Building User I have arranged to interview friends of my friends who live in apartment and flat buildings in Madrid. I also plan to implement 'guerilla interviewing' and ask locals about how they like to use their balconies.

Building User

- 1 What do you gain out of the architecture that they can not gain out of the site?
- 2 How do these architectural adjustments and choices in sites and buildings affect how people interact with the space?
- 3 Would this study of improving architecture actually help people to live in a more authentic way? or would it be an obstruction because they got used to their adaption to space? v
- 4 Flats in Madrid have a history of being social hubs, can flats embrace these social qualities and double as a public space?
- 5 How Does Affordance Indicate How People Would Want Buildings To Be?
- 6 What specific adjustments have users made to their restricted housing situations in Madrid? Response to poor design? Response to the environment? Response to people?
- 7 Has the change in climate in Madrid affected the users to respond to make-shift architectural solutions?
- 8 Do you believe that the flat design helps you live your day to day life?
What do you like about it?
What do you dislike about it?
- 9 Have you had to make any adjustments to your flat to make the space more useful and curated to your needs?
- 10 Do you believe that the shared areas in your apartment building help you? examples of this area are hallways, laundry rooms, lobby areas, etc.
- 11 Do you find the apartments to cultivate a sense of community within the building and with your neighbors?



Conceptual Diagram Illustrating the Unison of Architect and Building Occupant (Perez, 2023).

The over-arching topic of **user-centric** architecture has been addressed throughout architectural research as well as numerous firm and project **mission statements** - proving this subject's relevance and importance to the field. Moreover, there has been previous research regarding the integration of **psychology in design, improvement** of the **Post-Occupancy Evaluation**, and implementation of a more **personal 'user-observation'** study; Nevertheless, there has yet to be a proposal that **relates** and **combines** these factors nor one that applies these **theories** and **methods** to a specific **architectural element analysis**. Rather than only addressing these subjects as concepts, as many of the predecessors have, this project **exercises** these concepts by applying them to **balcony usage** in Spain; more specifically, the **user's adjustments, spatial interactions**, and **affordances** on their balconies and how studying these relations can reveal **embedded issues** within apartment and flat design. **'Learning from Amateurs'** emphasizes absorbing these observations from unique **spatial appropriations** and applying various **methods of analysis** to discover a potential **unforeseen design issue** common throughout Madrid housing. In fact, the majority of the existing **'user-observational'** studies have disregarded the attention to the user's **spatial manipulation**; meaning if this project provides **fruitful findings**, this approach can influence future studies that apply this process to an array of architectural elements at various locations. **Cross-disciplinary** methods of research and **field exercises** are applied to better understand the **multi-dimensional** relationship between architects, users, and the buildings they occupy. Analyzing this **'design domino effect'** through the lens of a specific architectural element (the balcony) is valuable for designers, specifically in Madrid. Whether it be the **catalog of appropriations** or the **interviews** with professors, architects, or locals, the information gathered is **Madrid-specific** and can provide fruitful information for the local designers, students, and researchers.



Las Colmenas, <https://madridnofrills.com/madrids-human-beehive/>



La Latina, <https://www.tandemmadrid.com/event/visit-la-latina/>



Map of Madrid, Spain with potential sites highlighted

Considering that my project is observation-oriented and site-specific, I have not yet selected a location for the prospective project and will officially select one during the Madrid site visit. For this project to provide the most fruitful information to create an impactful proposal, the chosen site must be visibly social, have an existing presence of people occupying the apartment or nearby areas, have multiple instances of balcony and spatial appropriations, and have people willing to interact with me. Therefore, I have researched potential areas, which are featured on the 'Next Steps' (page 25) portion of this research plan. These sites are selected due to their high apartment concentration, and from these, I suspect two as having the most potential:

1. El Barrio de La Concepcion₁

This is the location where the iconic 'Las Colmenas' Apartment blocks are built. These apartment blocks are recognized for their high-density balconies and I believe observation and interaction with inhabitants there could provide fruitful information regarding housing design flaws in high density housing.

2. El Barrio de La Latina₂

This colorful neighborhood is vivid with culture, youth, and art. Its active nightlife in bars and restaurants, as well as an active day life at parks and cafes, makes this area's apartment and flat buildings valid contenders for further investigation and analysis. Also La Latina has a typical Spanish housing typology, the Corrala, which are flats featuring outdoor corridors with courtyards and access to the apartments.

1. "Barrio La Concepción Madrid." Barrios Madrid, 5 Mar. 2023, barriosmadrid.net/la-concepcion/.
2. "Conocer Madrid: Barrio de La Latina. Pasear Por Madrid." Spain.Info, 2023, www.spain.info/es/lugares-interes/barrio-la-latina/.



Next Steps

Precedent housing projects that have integrated a user-based understanding and have demonstrated so through architectural details, spatial organization, or program proposals.

Research

- 1 Read and take note of the information most pertinent to my research from the books, articles, research, and content I have indicated on my theoretical and methods bibliography - in preparation for my interviews.
- 2 Refine questions to be more focused on the key subject
- 3 Begin answering the minor research questions
- 4 Begin answering the main research questions
- 5 Begin translating research into graphics, mapping, and drawings

Preparations for Madrid

- 1 Contact Architects, Researchers (at the University), apartment flat managers, and friends of my friends (who live in flats in Madrid) to set up an interview day
- 2 Research the interviewee's specific project, researcher's studies, or site condition to generate a few personalized questions
- 3 Integrate more of my research into my interview questions
- 4 Translate all of the questions into Spanish
- 5 Print questions and have a notepad prepared and available for interviews
- 6 Formulate an approachable introduction of project to strangers and interviewers so it is easy to digest, non-intimidating, and efficient
- 7 Plan site visits - to visit and observe areas with many apartments and flats 'in action' in Madrid and how the users adapt these space
- 8 Create a balcony catalog of photographs of balconies in use - Organize with overlapping solutions and methods of spatial manipulation

Site Visits

- 1 Las Colmenas (Beehive), en El Barrio de La Concepción Calle de la Virgen de Lourdes, 18, 28027 Madrid, Spain
- 2 Torres Blancas, Francisco Javier Sáenz de Oiza Av. de América, 37, 28002 Madrid, Spain
- 3 Housing Villaverde, David Chipperfield Architects Calle de Berrocal, 56, 28021 Madrid, Spain
- 4 41 Social Dwellings, Paredes Pino Arquitectos Vallecas, Madrid
- 5 Carabanchel Housing, FOA C. de los Clarinetes, 15, 28054 Madrid, Spain
- 6 Social Housing in Carabanchel, Coco Arquitectos Callao Metro Stop
- 7 (Area) Madrid de los Austrias
- 8 (Area) El Barrio de la Concepción
- 9 (Area) La Latina
- 10 (Area) El Rastro (on Sunday there is an open air flea market) Plaza de Cascorro and Ribera de Curtidores, between Calle Embajadores and the Ronda de Toledo - esta en area de La Latina
- 11 (Area) San Miguel Mercado
- 12 (Area) Tetuán

Annotated Bibliography

Amalgam of books, excerpts, and academic papers ranging from architecture theory, philosophy, psychology, and dissections of architectural precedents that will support my research. Understanding past research will inspire me to conduct a similar level of depthness that is separate from previous research and propose new ideas.

Primary Sources

Social Research
in Housing

'Kitchenless City' by Anna Puigjaner

This ongoing PhD research follows the history of the domestic sphere within housing and the advantageous potentials of sharing typically private architectural aspects, such as the kitchen, to common spaces.

<https://www.maio-architects.com/project/kitchenless-city/>

Designed versus
Undesigned

'Non-Plan: An Experiment in Freedom' by Reyner Banham

This paper dissects traditional urban planning approaches and advocates for a more flexible and spontaneous model of urban development. Banham argues that rigidity leads to unadaptable cities and is architecture's core issue. Understanding Banham's position will assist me in proposing a project that accounts for the balance of designed and undesigned.

Banham, R., P. Barker, P. Hall, and C. Price. "Non-Plan: An Experiment in Freedom." *New Society* 13 (1969): 338. Web.

Anthropological
Relation to Space

'The Ecological Approach of Visual Perception - Chapter 8 The Theory of Affordances' by James J. Gibson

This paper proposes the 'theory of affordances' stating that design informs perception and after physical interaction. This theory is pivotal to an architect's understanding of the power they hold in design and space's inexplicit ability to dictate and manipulate user's actions and feelings.

<https://cs.brown.edu/courses/cs137/readings/Gibson-AFF.pdf>

Banham, R., P. Barker, P. Hall, and C. Price. "Non-Plan: An Experiment in Freedom." *New Society* 13 (1969): 338. Web.

Building to
User

'Architecture Without Architects' By Bernard Rudofsky

This book analyzes examples of not formally taught architectural creations and how vernacular and user-centric approaches. I hope to learn from past examples and Rudofsky's analysis of these designs and apply my findings into my project - in hopes of creating a project that is equally as user-centric and timeless as these precedents.

Rudofsky, Bernard, and Museum of Modern Art. *Architecture without Architects* / by Bernard Rudofsky. Tokyo: Kajima Institute, 1984. Print.

Architect to
User

'Design Through Dialogue : a Guide for Clients and Architects' by Karen A. Franck and Teresa von Sommaruga Howard

A guide to improve the architect and client collaboration and communication approaches. The book highlights the benefits of participatory research methods which is an approach I am advocating for in my potential project.

Franck, Karen A., and Howard, Teresa Von Sommaruga. *Design through Dialogue : A Guide for Clients and Architects* / Karen A. Franck, Teresa Von Sommaruga Howard. Chichester, West Sussex, U.K.: Wiley, 2010. Print.

'Occupying Architecture : Between the Architect and the User' by Johnathan Hill

Book explores occupation of space rather than the physical inhabitation harvesting the engagement, interpretation, and personalization of architecture. Keywords: personalization and interpretation of space.

Hill, Jonathan. *Occupying Architecture : Between the Architect and the User*. Routledge, 1998.

'Thinking practice : reflections on architectural research and building work' by Nicholas Temple and Soumyen Bandyopadhyay

Book providing insights and reflections on architectural research and the practical aspects of architecture. I plan to integrate the architect's reflections about their own projects and use their analysis to support my claim that post-occupancy evaluation is crucial for the design process.

Temple, Nicholas., and Bandyopadhyay, Soumyen. *Thinking Practice : Reflections on Architectural Research and Building Work* / [edited by Nicholas Temple and Soumyen Bandyopadhyay]. London: Black Dog, 2007. Print.

'The social life of small urban spaces' by William H. Whyte

Examines how people use and interact with public spaces in cities. This study proves the importance of human scale, activity patterns, and street life in the design process - all of which I will include in my project proposal.

Whyte, William Hollingsworth. *The Social Life of Small Urban Spaces*. Project for Public Spaces, 2018.

'Curing The Fountain Headache: How Architects And Their Clients Communicate' by Andy Pressman

Highlighting the core issues that divide the architect and client dynamic such as the complex communication gaps. I plan to integrate the proposals to bridge the divide and integrate into my project proposal methodology.

Pressman, Andy. *Curing The Fountain Headache: How Architects And Their Clients Communicate*. 2nd ed., Sterling Publishing Co., 2006.

'Balconies as adaptable spaces in apartment housing' by Terri Peters and Sepideh Masoudinejad

Describes the balcony's existing qualities and how it has evolved over the years- particularly after the pandemic. Particular focus on adaptability.

Terri Peters, and Sepideh Masoudinejad. "Balconies As Adaptable Spaces in Apartment Housing." Vol. 3, no. 1, 2022. INSERT-MISSING-DATABASE-NAME, INSERT-MISSING-SERVICE-NAME, <https://doi.org/10.5334/bc.191>. Accessed 5 Nov. 2023.

Architect to
User Dynamic

Anthropological
Relation to Space

Code and
Regulation

Social Understanding

Social Understanding

Annotated Bibliography

- Social research in housing
- 'Rewriting Architecture: 10+1 Actions' by Tabula Scripta
 Book compiles interviews, precedent projects, and theories that encourage alternate approaches of designing and research. There are a few projects and interviews that have already inspired me and plan to use in my project.
 Alkemade, Floris. *Rewriting Architecture : 10 1 Actions : Tabula Scripta / Floris Alkemade [and Three Others] (eds.) ; with Contributions by Floris Alkemade [and Twenty-seven Others]*. 2020. Print.
- Anthropological Relation to Space
- 'To Understand how People Think, Look to Their Actions, Not Their Words' by Melissa Witte
 Study proving actions truly speak louder than words. Integrate findings to design spaces that correspond to people's innate physical reactions.
 De Witte, Melissa. Stanford University. (2019, August 5). To understand how people think, look to their actions, not their words | Stanford News. Stanford News. <https://news.stanford.edu/2019/08/02/thinking-faster-words/>
- Anthropological Relation to Space
- 'Architecture Inside Out' by Karen A. Franck, R. Bianca Lepori
 Examine how buildings impact well-being, behavior, and overall quality of life. Connection of human experience to private and public balcony spaces.
 Franck, Karen A., and R.Bianca Lepori. *Architecture Inside Out*. Academy Edition ed., Wiley, 2000.
- Architect to Building
- 'Architecture from the Inside Out: From the Body, the Senses, the Site and the Community' by Karen A. Franck, R. Bianca Lepori
 Continuation and deeper dive of above book. Psychological research on spatial relation to public and private space and propose housing that is naturally functional and catering to its users through engagement and interaction,
 Franck, Karen A., et al. *Architecture from the inside out: From the Body, the Senses, the Site, and the Community*. Wiley-Academy, 2007.
- Building to User Dynamic
- 'Social design: Participation and Empowerment' by Claudia Banz
 Book dissecting various social precedents that are examples of socially driven architecture. I hope to find inspiring existing projects and interviews with the architects to gain insight into their design headspaces.
 Banz, Claudia, et al. *Social Design : Participation and Empowerment*. Edited by Angeli Sachs and Museum für Gestaltung Zürich , First ed., Lars Müller, 2018.
- Anthropological Relation to Space
- 'Places of the Heart: The Psychogeography of Everyday Life' by Colin Ellard
 How our surroundings influence our moods, behaviors, and overall well-being. Emphasis shifting physical surroundings to improve mental state.
 Ellard, Colin. *Places of the Heart : The Psychogeography of Everyday Life*. Bellevue Literary Press, 2015.
- 'Anthropology for Architects: Social Relations and the Built Environment' by Ray Lucas
 That cultural, social, and psychological aspects shape our space usage with an emphasis on cultural dynamics underpinned by architecture.
 Lucas, Ray. *Anthropology for Architects : Social Relations and the Built Environment*. Bloomsbury Visual Arts, an Imprint of Bloomsbury Publishing Plc, 2020.
- Anthropological Relation to Space
- 'Home Smart Home: How We Want to Live' by Oliver Herwig
 How technology has effected our routines and how we use our homes. Noting the chapter on balcony usage (pg.30) as connection to nature.
 Herwig, Oliver. *Home Smart Home : How We Want to Live*. Birkhauser, 2022.
- Anthropological Relation to Space
- 'AIA 2030 Commitment By the Numbers: Post-Occupancy Evaluation' By the American Institute of Architects
 Article stating AIA initiative to encourage more POE practices by firms.
 AIA, American Institute of Architects. "AIA 2030 Commitment by the Numbers: Post-Occupancy Evaluation." *The American Institute of Architects*, 2023, www.aia.org/showcases/6526947-aia-2030-commitment-by-the-numbers-post-oc.
- Post-Occupancy Evaluation
- 'Post-Occupancy Evaluation: A Case Study of the Evaluation Process' by Arthur Rubin
 Casestudy exploring systematic assessments of building performance post-occupancy. Collects data and feedback from occupants to evaluate how well the building meets design objectives, functionality, and user satisfaction as well as insights to methods and assesment criteria.
 Rubin, Arthur I., et al. *Post-Occupancy Evaluation: A Case Study of the Evaluation Process*. General Service Administration, Washington D.C., 1979. www.govinfo.gov/content/pkg/GOVPUB-C13-576ab08beb21ecf931f40070a27f83ef/pdf/GOVPUB-C13-576ab08beb21ecf931f40070a27f83ef.pdf
- Architect to User Relationship
- 'Occupying architecture : between the architect and the user' by Jonathan Hill
 Book diving into architecture as the connecting factor between architect and user and is the physical embodiment of their relationship.
 Hill, Jonathan. *Occupying Architecture : Between the Architect and the User*. Routledge, 1998.
- Actor-Network Theory
- 'Reassembling the Social- An Introduction to Actor-Network-theory' by Bruno Latour
 Book describing the Actor-Network Theory applied to architecture and the importance of understanding the relationship of all actors and vessels.
 Latour B. (2005) *Reassembling the Social- An Introduction to Actor-Network-theory*

Annotated Bibliography

Anthropological Understanding	<p><u>'Ways of Seeing' by John Berger</u> <i>Book by an art critic exploring the process of observing, processing and understanding –specifically note points made in chapter “the act of looking”.</i> Berger, John. <i>Ways of Seeing</i>. British Broadcasting Corporation and Penguin Books, 2008. https://monoskop.org/images/9/9e/Berger_John_Ways_of_Seeing.pdf</p>	<p><u>'Balconies!' Podcast Episode on 'Historiexs of the Unexpected'</u> <i>Brief overview of the history and uses of balconies around the world. Emphasis on COVID and how it reserected previous and new usages.</i> Daybell, James, and Sam Willis. <i>Balconies!, Histories of the Unexpected</i>, Apr. 2020, https://open.spotify.com/episode/7vnpD3aT2XqFU2OiQycDOD?si=0h7-5udxT7y1y2aA-55rig&nd=1.</p>	History of Balconies
Teaching and Learning Method	<p><u>'Participatory Action Research' by Carleton Faribault School</u> <i>Defines the origins of PAR and the numerous strategies and approaches</i> Carleton Faribault School. "Participatory Action Research." Carleton Faribault School, 2023, participatoryactionresearch.sites.carleton.edu/about-par/.</p>	<p><u>'Why do Balconies Inspire Us?' by Vittoria Traverso</u> <i>Historical overview of balconies throughout time and place.</i> Traverso, Vittoria. "Why Do Balconies Inspire Us?" BBC Travel, BBC, 25 Feb. 2022, www.bbc.com/travel/article/20200409-the-history-of-balconies.</p>	History of Balconies
Teaching and Learning Method	<p><u>'My Pedagogic Creed' by John Dewey</u> <i>Essay regarding the experience-centered learning. This point emphasizes my point of the importance of architect's observation and interaction.</i> Dewey, J. (1938). <i>Experience and education</i>. New York: Macmillan. & Dewey, J. (1897). <i>School Journal</i> vol. 54 (January 1897), pp. 77-80 http://dewey.pragmatism.org/creed.htm</p>	<p><u>'A Brief History of the Balcony, from Ancient Persia to the COVID-19 Pandemic' by Carlotta and Matteo Origoni</u> <i>Historical overview, analysis and critique of the balcony.</i> Origoni, Matteo, and Carlotta Origoni. "A Brief History of the Balcony: From Ancient Persia to the Covid-19 Pandemic." <i>Domus</i>, Italy, 3 Apr. 2020, www.domusweb.it/en/architecture/2020/04/03/a-brief-history-of-the-balcony-from-ancient-persia-to-the-covid-19-pandemic.html.</p>	History of Balconies
Anthropological Relation to Space	<p><u>'Mind in Motion: How Action Shapes Thought' by Barbara Tversky</u> <i>Research by psychologist on relationship between human cognition and physical actions. keywords: Spatial thinking, memory, and interaction.</i> Tversky, Barbara (2019). <i>Mind in Motion: How Action Shapes Thought</i>. Hachette UK.</p>	<p><u>'Why Your Firm Should Embrace the Post-Occupancy Review' by Elizabeth Evitts Dickinson</u> <i>Article highlighting reasons why architects should conduct POE and includes interviews with practicing architects and association memebbers.</i> Dickinson, Elizabeth Evitts. "Why Your Firm Should Embrace the Post-Occupancy Review." <i>Architect Magazine</i>, Architect Magazine, 9 Sept. 2014, www.architectmagazine.com/practice/best-practices/why-your-firm-should-embrace-the-post-occupancy-review_o.</p>	Building to User Relationship
Anthropological Understanding	<p><u>'Introspection Put Back on Its Feet: New Research Reveals Conceptual Leap' by Jana Uher</u> <i>Psychology research blog regarding the process of truly understanding someone's perspective. This article is rich in information and I will be implementing these proven psychological studies into my project proposal.</i> Uher, Jana. "Introspection Put Back on Its Feet: New Research Reveals Conceptual Leap." <i>LSE Psychological & Behavioural Science</i>, 2019, https://blogs.lse.ac.uk/psychologylse/2015/10/12/introspection-put-back-on-its-feet-new-research-reveals-conceptual-leap/#:~:text=A%20key%20method%20for%20exploring,from%20a%20third%20person%20perspective.</p>	<p><u>'El 8% de los hogares españoles está pasando el confinamiento sin ver la calle desde su vivienda' by Idealista</u> <i>Article reports that 7.9% of Spanish flants cannot view the street. These 'interior home' typologies can benefit from balcony space.</i> Idealista. "El 8% de Los Hogares Españoles Está Pasando El Confinamiento Sin Ver La Calle Desde Su Vivienda." <i>Idealista News</i>, 22 May 2020, www.idealista.com/news/inmobiliario/vivienda/2020/04/21/782016-el-8-de-los-hogares-espanoles-esta-pasando-el-confinamiento-sin-ver-la-calle-desde.</p>	Existing Building Conditions in Madrid
Post-Occupancy Evaluation	<p><u>'A practical guide to post-occupancy evaluation and researching building user experience' by Nigel Oseland</u> <i>Case studies and guidelines on how POE can improve current buildings.</i> Oseland, Nigel. <i>A Practical Guide to Post-Occupancy Evaluation and Researching Building User Experience</i>. Routledge, 2024.</p>	<p><u>'Corona Virus Crisis Reveals Poor State of Spanish Apartments' by Sandra Lopez for El Pais Magazine.</u> <i>Covid quarantine has brought up issues in housing, especially the lack of balconies in Madrid, and highlights the most pressing ones.</i> Letón, Sandra López. "Coronavirus Crisis Reveals Poor State of Spanish Apartments." <i>EL PAÍS English</i>, 7 May 2020, english.elpais.com/economy_and_business/2020-05-07/coronavirus-crisis-reveals-poor-state-of-apartments-in-spain.html.</p>	Existing Building Conditions in Madrid
Actor-Network Theory	<p><u>'Architecture in Action-Traveling with Actor-Network Theory in the Land of Architectural Research' by Kjetil Fallan</u> Fallan K. (2008) <i>Architecture in Action-Traveling with Actor-Network Theory in the Land of Architectural Research</i></p>		

Annotated Bibliography

	Inspirational Precedents: Projects and Approaches	
Method & Design Approach	<p><u>Space10 Architects</u> Though this firm has discontinued their practice, their experimental and personal research approach is inspiring. The ideas and research that constitutes their 'onesharedhouse' co-living research and project proposal. https://space10.com/office</p>	Research Method and Presentation of Information
Method & Design Approach	<p><u>MAIO Architects</u> This firm, co-led by Anna Puigjaner, focuses on creating user-friendly spaces and has many social housing projects based in Spain. I want to integrate similar design approaches MAIO utilizes in their projects. e.g. 40 social housing units and 110 Rooms. https://www.maio-architects.com/project/40-social-housing/</p>	Design Approach
Method & Design Approach	<p><u>Team 10</u> This firm, though now discontinued, was an amalgam of forward thinking architects in the 70's and had a theoretical framework that focused on the future of living. I want to further research and possibly integrate their three major principles: Association, Identity, and Flexibility. https://architectuul.com/architect/team-10</p>	
Method & Design Approach	<p><u>URA, BXL 100</u> Architects and urbanists have compiled a document of 100 urban instances where small improvements could make a meaningful change to the site. I want to integrate a similar level of care and research style in this project. https://www.vai.be/nieuws/bxl100</p>	
Photographic Approach	<p><u>'TTP' (2012 - 2016) by Hayahisa Tomiyasu</u> This project showcases human creativity and how architecture and the built environment is so valuable to its users. I want my project to integrate a similar level of observation, patience, and social presence. This ties into the theory of affordances and the study on design informing actions. Tomiyasu, Hayahisa, Boualam, Oliver, and Marstaller, Lukas. TTP / by Hayahisa Tomiyasu. First ed. 2018. Print.</p>	
Photographic Approach	<p><u>10/1 (2008) By Bogdan Girbovan</u> This project is inspiring because it displays each individual's take on their given circumstances and how it has evolved to be a vessel for their habits and lifestyle; Despite their personal influences, there are many similarities in their 'space-coping' choices. I believe there is a lot of value in how people utilize a space and gives architects an insight as to how designers can create a space that imposes no obstacles for the users to live authentically. https://architectuul.com/architect/team-10</p>	
	<p><u>'Broadcast: Towards a Diffuse House-Anna Puigjaner' at Columbia GSAPP</u> This online lecture covers the origins of the kitchen and its evolution through time then leads into her proposal. She examines the history of shared living spaces and I want to use similar sources to collect the information I need for my research on collective spaces. I also want to do a similar style of research and presentation flow in my project. Puigjaner, Anna. "Towards a Diffuse House - Anna Puigjaner." Columbia GSAPP. Broadcast: Towards a Diffuse House - Anna Puigjaner, 10 Apr. 2020, Barcelona and New York City, Online.</p>	
	<p><u>'Cité du Grand Parc' by Lacaton&Vassal+Frédéric Druot+Christophe Hutin</u> This project is primarily centered on the balcony extension of each apartment and how this renovation has drastically improved the user's spatial flow. The architect's doing a post-occupation check in is an approach I am advocating in my architectural design process and project proposal. Zacharias-Vultur, Ioana. "Mies van Der Rohe Award 2019: Transformation of 530 Social Dwellings, Bordeaux. Interview with Anne Lacaton." Zeppelin: Architecture, City, Society, 10 Apr. 2019, e-zeppelin.ro/en/mies-van-der-rohe-award-2019-transformation-of-530-social-dwellings-bordeaux-interview-with-anne-lacaton/. https://www.youtube.com/watch?v=mJiBScFqjUI&t=187s&ab_channel=ArchDaily</p>	
	<p><u>'Aalto in Detail: A Catalogue of Components' by Céline Dietziker and Lukas Gruntz</u> This book is an amalgum of photographed architectural details by Alvar Aalto Architects. Aalto is very detail oriented designer and there is a lot to learn from his work. In conjunction with research on inhabitant observation, this can lead to a considerate architectural design proposal. Aalto, Aino, Aalto, Alvar, Aalto, Elissa, Dietziker, Céline, Gruntz, Lukas, and Haney, David. Aalto in Detail : A Catalog of Components / Céline Dietziker, Lukas Gruntz ; Translation from German into English, David Haney. 2022. Print.</p>	Catalogue of Architectural Solutions
	<p><u>'Style and Simulacrum: The Performative Photography of Nikki Lee' by Oleg Mindiak</u> An analysis of Nikki S. Lee's immersive photography style and approach to integrating into a sub-community. This analysis was pivotal in my MSc2 research and can be referenced in my paper for potential reference. Mindiak, Oleg. "Style and Simulacrum: The Performative Photography of Nikki Lee by Oleg Mindiak." Assemblage Journal, 2021, https://www.assemblagejournal.org/issue-3-fall-2021/oleg-mindiak.</p>	Method of Understanding Subjects