Poya Sohrabi

WORK EXPERIENCE

Chief executive officer
Super Vanak
17/04/2023 – Current

Boston, United States

- Directed strategic expansion of a Persian market and restaurant, incorporating an e-market for overseas sales.
- Managed operational, financial, and administrative functions, ensuring efficiency and growth.
- Oversaw marketing strategies and brand development, enhancing global market presence.
- Led team development and performance optimization.
- Maintained high standards in supply chain, inventory management, and quality assurance.

Scientific translator
Jostar Magazine
01/05/2017 – Current

Tehran, Iran

- Authored articles focused on urban issues, processes, and planning in Iran and the Middle East, emphasizing governance and economic aspects.
- Conducted in-depth research and analysis to produce insightful content on urban development and policy.
- Translated complex urban planning concepts and articles, making them accessible to a broader audience.
- Collaborated with editorial teams to identify relevant topics and ensure content accuracy and relevance.

Event Organizer, Project Manager, Business Manager
Iran Eurasia Business Association
19/05/2014 – 11/04/2019

Yerevan, Armenia

- Successfully organized and managed three expos, facilitating business interactions between Iranian companies and Armenian, Russian, and Georgian counterparts.
- Coordinated B2B and B2C events, efficiently handling layout planning, logistics, and execution.
- Managed cross-cultural business relationships and negotiations, enhancing international trade opportunities.
- Led project teams, overseeing all aspects of event planning and execution, ensuring timely and successful outcomes.

Architecture Intern

UN Studio

05/10/2017 – 29/12/2017

Amesterdam, Netherlands

- Participated in a European program collaboration between POLIMI and UN Studio, focusing on sustainable planning.
- Acquired practical skills in GIS, ArchiCAD, and BIM modeling, applying them to architectural projects.
- Engaged in various phases of sustainable architectural design and planning under professional guidance.
- Contributed to project discussions and planning sessions, gaining insights into advanced sustainable architecture practices.

Architectural planner

Mehraz

10/01/2012 – 15/09/2020

Yerevan, Armenia

- Led architectural design projects, focusing on residential buildings and landscape planning in Armenia and Georgia.
- Managed business operations, contributing to the strategic growth and project acquisition for the company.
- Spearheaded R&D initiatives in urban planning, driving innovation and development in regional projects.
- Collaborated with clients and stakeholders, ensuring project requirements were met with high standards of design and functionality.

EDUCATION AND TRAINING

Mediterranean University of Reggio Calabria

PhD in Architecture and Urban planning

01/11/2019 – 17/09/2023

Reggio Calabria, Italy | https://www.unirc.it/en/

Field(s) of study: **urban planning**

Final grade: **A** | Level in EQF: **EQF level 8**

Type of credits: **ECTS** | Number of credits: **180**

Thesis: MANAGING URBAN TRANSITION Place-sensitive approach towards technological resilience

- Complex Urban Context Analysis: Explored the multifaceted nature of urban environments, focusing on the transition phases and identifying hidden systemic perspectives, particularly under the lens of resilience.
- Mixed-Method Research Strategy: Utilized a combination of qualitative and quantitative methods to create conceptual frameworks for understanding complex urban systems and their evolving states.
- Resilience as a Learning Process: Investigated the concept of resilience as an ongoing process of adaptation and learning in urban settings, applying it to theoretical and practical scenarios.
- Big Data Analysis and Network Theory: Employed big data analytics to illustrate interconnectedness between cities and innovation drivers. Applied network theory to understand urban complexities and economic clusters.
- Interdisciplinary Theoretical Approach: Integrated theories from biology, mathematics, and complex systems to address long-term structural changes in cities and their evolutionary paths.
- Case Studies in Urban Resilience: Conducted in-depth case studies in diverse urban contexts, including Calabria (Europe) and Boston (USA), to apply and test the theoretical models developed.
- Technological Resilience in Urban Contexts: Explored the concept of technological resilience in cities, examining how technology influences urban resilience and response to shocks like pandemics.
- Policy Implications and Urban Governance: Addressed the implications of findings for policymakers, highlighting the importance of place-based methods in managing urban transitions and building resilience.
- Spatial Analysis and Diversification Strategies: Utilized spatial analysis to assess the impact of place on diversification processes, advocating for diversified development strategies at the local level.
- Evolutionary Economic Theory and Transition Management: Bridged evolutionary economic theory with practical regional policy configurations, focusing on the role of cities in fostering local innovation ecosystems.

Northeastern University

Urban informatics (Part of PhD Studies)

11/09/2021 – 14/08/2022

Boston, United States | https://www.northeastern.edu/

Field(s) of study: **Data Science**

Final grade: **A** | Level in EQF: **EQF level 8**

Type of credits: **ECTS** | Number of credits: **8**

- Advanced Mathematics (One Semester): Focused on complex mathematical theories and applications relevant to urban planning and data analysis. Skills in quantitative analysis, statistical modeling, and problem-solving were emphasized.
- Urban Informatics (One Semester): Explored the intersection of urban planning and data science. Covered topics like geospatial analysis, urban data visualization, and the use of informatics in urban policy and decision-making.
- Data Science (Master Course): Comprehensive study of data science principles and methodologies. Included subjects such as machine learning, big data analytics, data mining, and predictive modeling. Emphasized practical applications in data-driven decision-making and problem-solving.

Google

Project Managment Certificate

01/11/2023 – 12/01/2024

Boston, United States |

https://grow.google/certificates/project-management/#:~:text=Learners can earn a recommendation,them for entry-level jobs

Field(s) of study: **Business and administration not further defined**

Final grade: **A** | Level in EQF: **EQF level 5**

- Fundamentals of Project Management: Introduction to key concepts, methodologies, and frameworks in project management. Understanding the project life cycle and the role of a project manager.
- Project Planning and Execution: Techniques for effective project planning, including setting goals, defining scope, scheduling, resource allocation, and risk management.
- Agile Project Management: Learning the principles of Agile methodology, focusing on adaptability, continuous improvement, and collaboration among team members.
- Stakeholder Management and Communication: Strategies for managing stakeholder expectations and effective communication throughout the project lifecycle.
- Budgeting and Financial Management: Fundamentals of budgeting, cost estimation, and financial management in projects, ensuring projects stay within financial constraints.
- Quality Assurance and Control: Techniques to ensure project quality, including quality planning, assurance, control, and continuous quality improvement.
- Team Leadership and Collaboration: Developing leadership skills to manage and motivate project teams, fostering teamwork, and resolving conflicts.
- Tools and Technologies for Project Management: Training in the use of popular project management software and tools, including digital collaboration tools.
- Problem-Solving and Decision-Making: Enhancing critical thinking, problem-solving, and decision-making skills within the context of managing projects.
- Project Documentation and Reporting: Skills in creating and maintaining comprehensive project documentation and effective reporting to stakeholders.

stakeholders.

Dayche

Data analytics Master certificate

16/05/2020 – 29/12/2012

Tehran, Iran | https://dayche.com/

Field(s) of study: **Software engineering**

Final grade: **A** | Level in EQF: **EQF level 5**

Thesis: Exploiting Real Estate Data for the Enrichment of Spatial Data Infrastructure: A Network Analysis Approach with a Case Study in Tehran

- Data Analysis: Comprehensive study of data analysis techniques, focusing on interpreting, processing, and presenting data effectively for various applications.
- Proficiency in Software Tools:
  - Excel: Advanced skills in data organization, analysis, and visualization using Microsoft Excel.
  - Python: Gained proficiency in Python programming for data analysis, including data manipulation and visualization.
  - R Programming: Developed skills in statistical computing and graphics with R, particularly for data analysis and visualization.
  - Tableau: Learned to use Tableau for creating interactive and shareable dashboards.
- Artificial Intelligence (AI): Introduction to AI principles and their applications in data analysis, including working with different algorithms for predictive modeling and data interpretation.
- Statistics and Probabilities: In-depth understanding of statistical methods and probability theory, essential for data analysis and interpretation in various fields.
- Bootcamps in Specialized Data Analysis:
  - Urban Planning Data Analysis: Learned to analyze and interpret urban data, focusing on urban development, planning, and policy-making.
  - Biological Data Analysis: Gained insights into bioinformatics, focusing on analyzing biological data.
  - Medical Data Analysis: Acquired skills in analyzing medical and healthcare data, understanding patterns, and drawing insights for medical research and practice.

Politecnico di Milano

Master degree in Sustainable Architecture and Landscape desing

08/09/2016 – 17/04/2019

Piacenza, Italy | https://www.polimi.it/

Field(s) of study: **sustainability**

Final grade: **106** | Level in EQF: **EQF level 7**

Type of credits: **ECTS** | Number of credits: **120**

Thesis: Bright Future: Bright future for black neighbourhood; Reinventing Barcelona's industrial zone, landscape as human urban counterpoise

- Sustainability Concepts: In-depth study of sustainability principles in architecture and design, focusing on environmentally responsible and resource-efficient practices.
- Urban Design and Planning: Explored advanced concepts in urban design and planning, integrating sustainability with urban development strategies.
- Residential and Commercial Architecture Design: Gained expertise in designing sustainable residential and commercial buildings, emphasizing functionality, aesthetics, and energy efficiency.
- Energy Efficiency and Renewable Energy: Studied various aspects of energy efficiency in buildings and the integration of renewable energy sources in architectural design.
- LEED Certification Audit: Trained in the Leadership in Energy and Environmental Design (LEED) certification process, understanding the criteria for sustainable building standards.
- Stakeholder and Project Assessment: Acquired skills in stakeholder analysis and project assessment, crucial for successful project management in sustainable architecture.
- Technical Building Assessment: Learned to perform technical assessments of buildings, including the statics of building structures, HVAC systems, and overall building health.

- Software Proficiency:
  - ArchiCAD: Developed skills in ArchiCAD for architectural design and documentation.
  - Building Information Modeling (BIM): Gained proficiency in BIM for efficient management of building data throughout its lifecycle.
  - Geographic Information Systems (GIS): Utilized GIS for spatial analysis in urban planning and landscape design.
  - Conceptual Modeling: Mastered the skill of conceptual modeling, essential for the initial stages of design and planning processes.
- Thesis - Landscape 4.0 and Industry 4.0:
  - Title: "Bright Future: Bright future for black neighbourhood; Reinventing Barcelona's industrial zone, landscape as human urban counterpoise".
  - Abstract: Investigated the integration of Landscape 4.0 with Industry 4.0 as a method to connect the physical environment with human and ecological networks. The thesis provided a systematic review of landscape value in balancing economic development and social equity, focusing on the Barcelona Metropolitan area. It also discussed interdisciplinary approaches from the circular economy and the role of landscape design in fostering industrial innovation.

Politecnico di Milano

Sustainable Buildings in African climate

01/07/2017 – 10/11/2017

Milan, Italy | https://www.pok.polimi.it/

Field(s) of study: **Natural sciences, mathematics and statistics**

Final grade: A | Level in EQF: **EQF level 5**

- Integrated Design Approach in Africa: Understanding the role of the building sector in global emissions, with a focus on Africa's diverse climates and design priorities.
- Principles of Building Physics: Fundamental concepts of heat transfer and comfort principles in building design.
- Climate Responsive Building Design: Strategies for reducing energy demand through design choices such as orientation and natural ventilation.
- Technical Plants: Discussing high-efficiency technical systems and renewable energy sources for reducing energy consumption.
- Sustainable Strategies and Building Materials: Applying sustainable strategies in building design and selecting suitable materials in relation to the context.

Qazvin University of Medical Sciences

Nursing Bsc

20/10/2012 – 10/07/2016

Qazvin, Iran | https://qums.ac.ir/

Field(s) of study: **Medical Science**

Final grade: **A**

Number of credits: **138**

Thesis: A Comparative Analysis of Nursing Care Models: Evaluating Patient Outcomes in Different Healthcare Settings.

Patient Care and Assessment:

- Develop proficiency in providing comprehensive patient care and conducting thorough health assessments.

Clinical Decision-Making:

- Acquire skills in making informed clinical decisions based on evidence-based practices and critical thinking.

Health Promotion and Education:

- Learn strategies to promote health and provide effective patient education for disease prevention and management.

Interdisciplinary Collaboration:

- Foster teamwork and collaboration with healthcare professionals to ensure holistic and patient-centered care.

Nursing Research and Evidence-Based Practice:

- Gain an understanding of nursing research principles and apply evidence-based practices in clinical settings.

University of Isfahan

Bachelor degree in Interior Architecture

10/10/2008 – 09/02/2011

Isfahan, Iran | https://www.ui.ac.ir/EN

Field(s) of study: **Architecture and town planning**

Final grade: **B+** | Level in EQF: **EQF level 6**

Type of credits: **Credit hours** | Number of credits: **128**

Thesis: Architectural Synthesis in Sacred Spaces: Exploring Armenian-Iranian Influences in Armenian Church Design

- Design Principles: Fundamental concepts of design, including spatial awareness, color theory, and aesthetic considerations.
- Technical Skills: Learning tools like CAD software, 3D modeling, and hand drafting for design visualization and presentation.
- Material and Construction Knowledge: Understanding materials, their properties, and methods of construction relevant to interior spaces.
- Historical and Contemporary Design: Study of historical design styles and contemporary trends in interior architecture.
- Building Codes and Regulations: Knowledge of relevant building codes, safety standards, and accessibility requirements.
- Project Management: Skills in managing design projects from concept to completion, including client interactions and budget management.
- Sustainability in Design: Incorporating sustainable and environmentally conscious practices in design projects.
- Lighting and Acoustics: Understanding the role of lighting and acoustics in interior spaces for functionality and atmosphere.

LANGUAGE SKILLS

Mother tongue(s)

Persian | Kurdish

Other language(s)

English	Armenian	Italian
Listening: C2	Listening: B2	Listening: B2
Reading: C2	Reading: C1	Reading: B2
Spoken interaction: C2	Spoken interaction: C1	Spoken interaction: B1
Spoken production: C2	Spoken production: C1	Spoken production: B1
Writing: C2	Writing: B2	Writing: B1

German

Listening

●●○○○○

A2

Reading

●●○○○○

A2

Spoken interaction

●●○○○○

A2

Spoken production

●●○○○○

A2

Writing

●●○○○○

A2

DIGITAL SKILLS

Microsoft Office | Microsoft Excel | python | Microsoft Word | Tableau | programming: Python, MATLAB and SQL | AutoCad 2D -3D | BIM Management (Template & CollaborationTools)

CONFERENCES AND SEMINARS

The Role of Data Science in Urban Planning

11/07/2022 – 13/07/2022 | Boston-USA

In this seminar, the focus is on the application of data science in urban planning in the context of Boston. It covers predictive analytics, urban informatics, and how data can drive decision-making for smarter, more sustainable cities.

Urban Regeneration: Reshaping Cities for a Sustainable Future

13/06/2021 – 14/06/2021 | Shiraz-Iran

This seminar explores innovative strategies for urban regeneration, focusing on sustainable development and revitalization of urban areas in Iran. It includes case studies on successful regeneration projects and discussions on integrating cultural heritage with modern urban planning.

Germany's Green Architecture Revolution

01/05/2019 – 04/05/2019 | Hamburg-Germany

Discusses Germany's advancements in green architecture, emphasizing energy efficiency, renewable materials, and environmental impact. The seminar includes workshops on green building techniques and sustainable urban design principles.

Innovative Sustainable Architecture in Italy

08/04/2019 – 10/04/2019 | Milan-Italy

Examines Italy's approach to sustainable architecture, highlighting contemporary designs that blend traditional aesthetics with modern sustainability practices. The seminar showcases landmark projects and discusses Italy's role in leading sustainable architectural design in Europe.

Data-Driven Urban Regeneration

12/02/2018 – 13/02/2018 | Maastricht-Netherlands

This seminar focuses on how the Netherlands uses data science to inform and enhance urban regeneration projects. It covers topics like big data analysis, smart city initiatives, and the role of technology in urban redevelopment.

Iran Euraasia Business network

09/09/2016 – 12/09/2016 | Yerevan-Armenia

This seminar focused on enhancing business relations between Iran and Eurasian countries. It covered key topics like market analysis, trade regulations, and economic policies influencing Iran-Eurasia trade. Networking sessions were designed to build connections among business leaders from Iran and neighboring Eurasian countries, encouraging cross-border collaborations and partnerships. The seminar provided insights into emerging business opportunities and strategies to navigate the unique challenges of this regional market.

HONOURS AND AWARDS

Second Place Winner at the UNIRC PhD Competition

23/09/2019 | https://www.unirc.it/ricerca/scuola_dottorato.php

Secured Second-Rank Position in PhD Admissions for Architecture and Urban Regeneration: Achieved through a merit-based selection process, complemented by a rigorous interview, demonstrating in-depth knowledge and commitment to the field of architecture and urban regeneration.

First Place Winner in Mathematics at the International Olympiad

09/10/2006 | https://sampad.gov.ir/

Gold Medalist in International Mathematics Olympiad, High School Division - Organized by SAMPAD, Iran: Achieved first place among international competitors in a rigorous mathematics competition, demonstrating exceptional problem-solving skills and mathematical aptitude.

First Place Winner in National Taekwondo games at Iran National team

28/05/2005 | https://taekwondo.ir/home/en

Awarded a Gold Medal in the National Taekwondo Competition and served as a key player on the Iranian National Team for two years, demonstrating exceptional skill, dedication, and sportsmanship in the field of martial arts.

PUBLICATIONS

MANAGING URBAN TRANSITION Place-sensitive approach towards technological resilience

2023 | https://www.researchgate.net/publication/377694612_MANAGING_URBAN_TRANSITION_Place-sensitive_approach_towards_technological_resilience_Paya_Sohrabi | 10.13140/RG.2.2.33835.05926

The thesis attempts to explore the complex nature of urban context in the transition phase to discover the system's hidden perspectives under the resiliency lens. Research launches the process by an introduction from the TREnD project to the ongoing issue of disparity in European regions and cities. Introduce a mixed-method strategy in creating a conceptual framework for picturing a complex system (Urban area) emerging new state during manifold progress of the transition and utilizing this framework, an endogenous characteristic of the process introduced as the ongoing process of learning by doing namely resilience. To assess the theoretical model, quantitative methods are applied. Big-Data analysis paves the way to illustrate the network of interconnectedness between cities and innovation drivers, and descriptive models could interpret the nature of this process. Borrowing theories from biology, mathematics, and complex theories, the research emphasizes a long-term run for a structural change instead of a one-sized method to identify a city's evolutionary path. In this context, the special attention to technology is a unique approach to quantifying theories on the measurable ground during this effort. This research applied suggested models in two case studies, Calabria as a European region with a long history of structural issues and Boston in the USA as one of the well-known innovative areas of the American continent. TREnD project, as the principal rationale of the project, shed light on the

various concept in both theoretical and practical domains, and this particular research attention is on a place-based method for measuring technological resilience to give the opportunity to the policymakers, communities, and scientific fellows to deal with this complex issue. A Series of the algorithm, network mapping, distance heatmaps, and conceptual frameworks will introduce during this attempt.

The role of personality Traits on the financial behaviour of retirees with the mediation of financial literacy and level of education

2023

Abstract

The purpose of this research is to investigate the role of personality Traits on the financial behaviour of retirees with the mediation of financial literacy and level of education. In this regard, to estimate the conceptual model of the research, the required indicators were extracted from the standard questionnaires. Specifically, in this research, Gokhan & Mutlu (2019), Vieira et al. (2020) and Klontz et al. (2012) scales were used to measuring the variables of personality traits, financial literacy and financial behaviour. In this research, to select the sample size Cochran's formula was used, and as a result, 450 social security retirees in Tehran were selected by the available sampling method and the necessary data was collected by distributing questionnaires among them. Descriptive analysis and validity and reliability tests of the questionnaires were carried out in this research. The data were analyzed using structural equation modelling. The research results showed that the personality traits of Extraversion, Agreeableness, Neuroticism, and Openness to Experience directly or indirectly (through the channel of education and financial literacy) affect Compulsive Hoarding; therefore, it was concluded that personality Traits play an important role in determining the financial behaviour of retirees.

Keywords: personality Traits, financial behavior, financial literacy, education

Investigating the Role of urban regeneration on death cases (case study of the Tehran Metropolitan area)

2023

Abstract

Health crises and lack of environmental safety in physical and mental dimensions threaten contemporary urban and residential spaces. The lack of safety of citizens against accidents, lack of security in urban and residential spaces, isolation, depression and social breakdown in urban areas, as well as the excessive dependence of citizens on cars in different strata, are chronic urban and environmental diseases. In such a situation, it is necessary to adopt new approaches to environmental planning and design to improve the environmental health of citizens. In this paper, the impact of urban regeneration in 22 districts of Tehran on infant mortality and total mortality is evaluated using a balanced panel dataset of data obtained from several different sources. Data related to the performance of urban renewal death cases and other urban indicators have also been collected from the Tehran Municipality database (https://data.tehran.ir). The data on gross domestic product and consumer price index are also gathered from the regional accounts of the Iran Statistics Center. The results of this research showed that urban regeneration has a negative and significant effect on total and infant mortality in Tehran. Therefore, to reduce mortality, we can benefit from urban regeneration programs.

Keywords: urban regeneration, mortality, Tehran, regression

The effect of urban regeneration on housing prices - a case study (22 districts of Tehran)

2023

Abstract

The growing trend of urbanization and the increase in the population of cities has increased the demand for housing more than before. House as one of the most important human needs, has always been an issue for the metropolises, especially the cities of developing countries. Various factors affect the price of housing, which can be referred to as macroeconomic variables and indicators related to housing characteristics. One of the variables that have the potential to change housing prices is urban regeneration programs. It has been shown in various studies that urban regeneration programs can provide the basis for changing housing prices. On the one hand, urban regeneration increases housing supply, which can help reduce housing prices, and on the other hand, by changing housing characteristics and improving the geographical location of cities and improving housing quality, it can increase housing prices. In this research, the relationship between housing prices and urban regeneration in 22 districts of Tehran during the years 2018 to 2022 was investigated using housing price data. The performance of

regeneration programs and other control variables. In this research, panel data and fixed effect

methods were used to estimate the model. The results of the research showed that the expansion

of urban regeneration programs has led to an increase in housing prices in the Tehran

metropolis.

Keywords: housing price, Tehran metropolis, urban regeneration, fixed effect model

Navigating the Green Transition During the Pandemic Equitably: A New Perspective on Technological Resilience Among Boston Neighborhoods Facing the Shock

2023 | 10.1007/978-3-031-34211-0_14

Cities, public authorities, and private organizations respond to climate change with various green policies and strategies to enhance community resilience. However, these community-level transition processes are complex and require deliberate and collective planning. Under this context, the purpose of this study is to understand the energy actions taken at the local level, as well as to analyze the differences between the neighborhoods' green energy transitions in terms of their socio-economic aspects, using a big data perspective. The paper is addressing the following question: what was the role that the pandemic played in accelerating or slowing Boston's green investments, and to what extent do different racial and socioeconomic groups invest in green technologies during this period? The study aims to answer these research questions using the City of Boston as a case study to reveal different neighborhoods' paths in achieving the transformation of city ecosystems towards green neutrality. Next, the theoretical framework builds the linkages among the city's measures, climate actions proposed by the City of Boston, and their associated contexts and outcomes in shaping new policy and planning models for higher 'green' performance. Following the understanding of the actions, the neighborhoods' socio-economic and building permit data were assessed to understand whether economic disparities exacerbated during the pandemic have affected neighborhoods' performance in green transition. This method is applied in a comparative study of its 23 neighborhoods, using a dataset provided by Boston Area Research Initiative (BARI). Intriguingly, the paper's findings show that racial differences within the city have no significant impact on tech-related expenditures. There is a clear negative correlation between poverty rate and investment, which indicates the reverse relationship between these socio-economic factors. The study concludes that city authorities will need to address the challenges of each community achieving green transition with more targeted programs based on its needs.

Mapping Connections between Neighborhoods in Response to Community-Based Social Needs

2023 | 10.3390/su1500409

Geographic proximity might not be the only factor influencing the connections between neighborhoods within the same city. Most likely, the community's needs and behaviors play a role in facilitating or hindering any connections between these urban areas. Accordingly, relationships between communities may differ or be similar based on their respective characteristics. This paper aims to demonstrate that communities are close based on the needs they share, regardless of their ethnicity or geographic location. In this study, a time series analysis of neighborhoods' needs is explored to gain a deeper understanding of the communities' network. The study takes into account the co-occurrence of complaints/reports from residents regarding the same issue. The dataset was retrieved from the Boston Area Research Initiative (BARI) and the 311 system that describe the features of neighborhoods regarding non-emergency issues. Subsequently, the connection between neighborhoods in the City of Boston was analyzed using a mixture of PCA, K-means, association rule mining, and a network creation tool. Moreover, clustering coefficients and degrees of centrality were used as significant factors in identifying the members of groups and marking crucial nodes in the network. A series of graphs were generated to show how the neighborhoods are linked based on their socioeconomic concerns. The results prove that even geographically disconnected neighborhoods within Boston have similar social needs, despite their distance from one another. Furthermore, it revealed that some neighborhoods can act as linking bridges for other neighborhoods, while others may be isolated within the network graph. This study has increased awareness of urban aspects. The authorities may consider other dimensions than the traditional ones regarding neighborhood development and addressing problems. Finally, it helps to identify common characteristics between neighborhoods, which facilitates the policy making process.

Spatializing Social Networking Analysis to Capture Local Innovation Flows towards Inclusive Transition

2022 | 10.3390/su1405300

The location of the local network of firms impacts, positively or negatively, their economic performance. The interactions between different sectors in a territory are still not easily observable. We test the complexity of the economic structure at a local level, given the availability of data at a very granular scale. This could greatly assist in observing sectors or/and locations that play a dominant role in the regional economy. Thus, in order to interpret the economic structure of a territory, we used cluster-based analysis. The analysis helps in evaluating the interconnections among sectors that constitute a cluster. A novel method of describing the territorial economic structure is presented by applying Social Network Analysis (SNA) within cluster-based analysis to characterize the importance of both location and economic interconnections. In this study, we focus on the industrial agglomerations in Calabria, Italy, to underpin the potential of the region's industries by using social networking analysis metrics. This research put forward new interpretations of SNA metrics that describe regional economic compositions. Our findings reveal that territorial social networks are a potential instrument for understanding interactions in regional systems and economic clusters and might help in highlighting local industrial potentials. We believe that this study's results could be considered as the initial steps for a pioneer data-driven place-based structural analysis model.

Networking analysis in the urban context: Novel instrument for managing the urban transition

2020

Nowadays, the insurgence of shocks in every dimension of life is questioning the effect of globalization on the urbanization process. The exposition to risks, related to the impact of continuous environmental and economic shocks, seems, in turn, increasingly connected to high urbanization processes. Among a variety of specific vulnerability factors that can influence the life of the population in each settlement, two sources of them seem to be generalized: Higher levels of income inequality spread in urban areas, the concentration of knowledge complexity in large cities. Traditional urbanization theory has become hard to interpret these changes on a global scale, and "innovation" is a core concept to explain the new differences in the urbanization dynamics. The paper aims to combine urban and innovation policy towards the post-Europe 2020 Strategy, as a scientific advance in urban and regional studies within innovation policy design. It is argued that this combination is a crucial need due to the pivotal role that the city is acquiring in managing adaptation to shocks and in designing new approaches in line with the Just Transition mechanism introduced by the European Union. The paper argues that in light of a completely new scenario of development, especially after the pandemic, due to the necessity to make a transition towards sustainability, the traditional approach of analyzing the context to drive the political choices of transition need to change. Data analytics is acquiring importance in the decision making that is required to be faster due to the continuous and unpredictable shocks that are facing us. Technological progress, the engine of development is crucial in driving cities and territories towards a transition to a post-carbon economy. Since the city transition is not formal top-down management, the network modelling of this structure and the complexity of the component would be an exciting approach. Network analysis, both as a tool to measure the change and as a new framework for urban management, could play an essential role for policymakers to develop a responsive dashboard that benefits from local data to generate place sensitive materials for decisions. The urban system is consistently facing turbulence which leads politicians to convert them to a path to analysis, this point of translating the routine tensions into the challenges following a pattern of emergence and remedies to a cure are resilience building. Defining urban resilience in city level is double-sided sword however it grasps the prosperity of the innovation tightly but would stem educational shields for fresh ideas required incubators to grow. The expected result is to explain how applying the networking analysis at the urban level can change the perspective of urban planning, create an Ex-ante mechanism based on network modelling for policymakers to foresight trajectories based on their decision could depict an utterly novel approach in urban management tools.

Bright Future: Bright future for black neighbourhood; Reinventing Barcelona's industrial zone, landscape as human urban counterpoise

2019

Proposal is a Practical overview of standards and prototypes for Landscape 4.0(L 4.0) as a key enabler for the next generation advanced manufacturing, referred to as Industry 4.0 (I 4.0). Landscape at the fundamental level is a means of connecting the physical environment to the human, flora, and fauna as a ubiquitous network, that enables biodiversity to collect and exchange experiences. The manufacturing industry is seeking versatile manufacturing service provisions to overcome the shortened life cycle, increased social contribution, and fluctuating customer needs for competitive marketplaces. This paper depicts a systematic approach to review Landscape value as a counterpoise in the dichotomy between economic development and social equity. The thorough design and sketching include the essential standard landscape and the patent landscape based on the Connectada 4.0 standards sampling the Barcelona Metropolitan area, where most national innovated industrial bases are located. The literature of emerging interdisciplinary approach from the Circular economy (HISPACK), the national call for the industrial development and La Sagrera Lineal Park proposal.

THE METROPOLITAN VILLAGE' (Urban-Rural lifestyle within a multi polar metropolis)

2019

This paper explores the intricate dynamics of urban-rural linkages and their pivotal role in the sustainable regeneration of metropolitan areas. By revisiting the traditional dependencies of cities on adjacent villages, particularly for organic crop production and waste recycling, we delve into the potential for a symbiotic urban-rural relationship that supports urban needs while bolstering rural economies. The study proposes a redefinition of rural habitats within the metropolitan context, advocating for planning that respects and integrates the unique social, physical, economic, and governance 'genomes' of rural communities.

Further, the paper presents strategies for reinforcing the physical environment through innovative water treatment methodologies, effective solid and bio-waste management, and the redesign of gray and green infrastructures. By applying principles from metropolitan design, planning, economics, and biology, alongside the MetroMatrix framework, we aim to create resilient, interconnected urban and rural landscapes. This holistic approach not only addresses urban sustainability challenges but also revitalizes rural areas, fostering a balanced metropolitan development that is environmentally sustainable, economically viable, and socially inclusive.

PROJECTS

TREnD

01/11/2019 – 12/08/2022

Participated in the EU-funded TREND Project as a PhD student, focusing on Transition Management for sustainable development. The project aimed at restructuring unsustainable systems by merging transition with resilience-building, based on Evolutionary Economy principles. It sought to promote regional diversification through place-based innovation policies, addressing the developmental disparities between EU-US peripheral and leading regions. Contributions included developing an Open Access Toolkit for community use and policy implementation.

Iran Eurasia Business Expo

14/05/2013 – 21/05/2017

Project Manager and Event Organizer for Annual Business Expo, Armenia: Spearheaded a series of business expos facilitating B2B communications and meetings with investors and project developers. Successfully enhanced Iran-Eurasia business relations by engaging companies from Iran, Armenia, Russia, Belarus, Georgia, and Turkey, influencing market development and fostering cross-regional collaborations.

COMMUNICATION AND INTERPERSONAL SKILLS

Cross-Cultural Communication

Skilled in engaging with diverse cultural groups, demonstrating sensitivity and adaptability in communication styles to foster mutual understanding and respect.

Team Collaboration

Proven ability to work effectively in team settings, contributing to a cohesive and productive group dynamic through open communication and shared goal achievement.

Presentation Skills

Experienced in delivering clear, compelling presentations to a variety of audiences, utilizing engaging communication techniques to convey information effectively.

Negotiation Skills

Adept in negotiation, able to reach mutually beneficial agreements by understanding and addressing diverse perspectives and interests

VOLUNTEERING

Community Outreach Coordinator

15/10/2017 - 01/12/2018 | Piacenza

1. **Welcoming and Hospitality:**
   - Extended a warm and welcoming atmosphere to homeless community members, fostering a sense of inclusion and dignity.
2. **Food Preparation and Service:**
   - Organized and prepared meals for the homeless community, ensuring nutritional value and safe food handling practices.
3. **Community Engagement:**
   - Facilitated interactions between volunteers and homeless individuals, promoting a supportive community environment.
4. **Resource Coordination:**
   - Collaborated with local resources and organizations to enhance support services for the homeless, addressing both immediate and long-term needs.
5. **Empathy and Compassion:**
   - Demonstrated empathy and compassion in interactions with the homeless community, recognizing and responding to individual needs with sensitivity.