

# Roxana Fiorella Guillen Hurtado

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Postgraduate student in Urban Spatial Science with a background in architecture and urbanism. Passionate about leveraging data-driven solutions to tackle urban challenges. With strong analytical and research skills with experience in urban analysis, transport networks and housing planning.

## EDUCATION

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### MSc Urban Spatial Science

Class of 2025 | UCL - The Bartlett Centre for Advanced Spatial Analysis

Master's programme focused on integrating data science and spatial analysis. Modules included Data Science for Spatial Systems, GIS, Quantitative Methods, Urban Simulation, Agent-based Modelling, Building Spatial Applications with Big Data, Remote Sensing, among others.

### Bachelor in Architecture

Class of 2021 | PUCP - Faculty of Architecture and Urbanism

11-semester programme with a strong focus on urbanism. Included modules in sustainable urban design, spatial analysis and urban planning. Awarded for an outstanding thesis on urban design, applying innovative approaches to vulnerable neighborhoods and housing.

### Study-Abroad Semester | MSc. ITECH

2018-19 | University of Stuttgart

Semester in the Integrative Technologies and Architectural Design Research (ITECH) programme, exploring the intersection of computational design, robotic fabrication, and architecture. Gained experience in parametric modeling, algorithmic design, and digital fabrication techniques.

### Adaptive Transport Machine Workshop

2017 | Architectural Association Visiting School

Workshop on adaptive mobility systems, focusing on generative design and responsive urban transport solutions. Engaged in parametric design and fabrication exploring how computational tools can optimize urban mobility and its adaptability.

## SKILLS

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### Technical Skills

- **Programming & Data Science:** Python (Pandas, Geopandas, NetworkX), R (Geospatial Analysis), SQL
- **Geospatial & Urban Analysis:** QGIS, Google Earth Engine, NetLogo
- **Machine Learning & Quantitative Methods:** Data Analysis, Regression, Clustering, Random Forests
- **Urban Simulation:** Spatial network analysis, Spatial Interaction Models, Agent-based modelling
- **Data Visualization:** Ggplot2, Matplotlib, Leaflet, Bokeh
- **Architectural Software:** AutoCAD, ArchiCAD, Rhinoceros, Grasshopper(parametric design)
- **Graphic design:** Adobe Creative Suite (Photoshop, Illustrator, InDesign, Premiere)
- **Microsoft Office and Google Suites**

### Urban Planning & Research

- **Research assistant** on climate adaptation and resettlement strategies in flood-prone Amazonian communities.
- Awarded for an **outstanding thesis** on an alternative urban model for an Amazonian neighborhood.
- Work experience on **qualitative analysis** for urban spaces to inform urban policy in the public sector
- Academic knowledge in **quantitative analysis** to analyse socio-demographic trends and mobility patterns.
- Experience in **developing urban mobility proposals** integrating sustainable mobility and accessibility principles.

### Communication

- **Strong communication & public speaking skills**, actively collaborating as a Student Ambassador at The Bartlett
- **Delivered presentations** of my thesis research at academic events in Peru and Spain.
- **Conducted fieldwork and stakeholder consultations** with local authorities and communities for urban planning projects.
- **Designed and facilitated workshops** for participatory urban development initiatives.
- **Curated and presented exhibitions** showcasing urban research and policy proposals.

### Languages

- **Spanish** Native
- **English** C1 level
- **German** B2 level

## WORK EXPERIENCE

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### **Bartlett Student Ambassador**

12.2024 - Present

#### **UCL - The Bartlett Faculty of the Built Environment**

Represented The Bartlett in academic and outreach initiatives, engaging with prospective students and the university community.

- Provided guidance on the MSc Urban Spatial Science program through events, Q&A sessions, and mentoring.
- Supported public engagement and communication, enhancing visibility of The Bartlett's student experience in social media

### **Urban Designer**

10.2021 - 09.2024

#### **Municipality of Lima, Peru**

Part of the core team for the Special Landscape Project for the Rimac River (PEPRR), one of the largest urban projects in Peru, focused on revitalizing Lima's Historic Centre.

- Led the urban analysis and design of public spaces, including plazas, streets, and avenues, incorporating sustainable mobility principles such as pedestrian-friendly streets and bicycle lane networks.
- Contributed to the redesign of vehicular and pedestrian transit, prioritizing accessibility and sustainable transport solutions.
- Developed design guidelines to inform urban policy and facilitate interinstitutional coordination with local authorities.
- Managed the visualization and dissemination of project progress through stakeholder meetings, exhibitions, videos and publications.

### **Cordillera Sur - Architecture Firm**

02.2021 - 10.2021

Contributed to landscape, architecture, and urban design projects with a focus on environmental and cultural sustainability.

- Developed landscape design for memorial and public space projects, integrating ecological restoration principles.
- Designed visual communication materials for competitions and public presentations, showcasing urban proposals.

### **Speaker**

#### **Friedrich Ebert Foundation & 'Acuerdo por Iquitos' Foundation**

12.2021

Presented two lectures in the forum 'A better urban future for Iquitos':

- Inhabiting the river: alternative urban model for the neighborhood of Bajo Belen, Iquitos.
- Inhabiting the river: rethinking housing and the Amazonian neighborhood in Bajo Belen, Iquitos.

#### **UPC - Polytechnic University of Catalonia**

10.2021

Presented a lecture in the module "Architecture and Cooperation 2021" given at the ETSAB-UPC.

- Lecture: Inhabiting the river: towards an alternative urban model for the flood-prone neighborhood of Bajo Belen.

### **Research Intern**

01.2018 - 08.2018

#### **HOME [Self-Sustainable Amazonian Cities] - Research project**

Contributed to an action-research project on climate-induced population resettlement in Peru, developed by PUCP's Research Center for Architecture and the City in collaboration with UCL's Development Planning Unit.

- Assisted in creating visual materials and designing two research publications and one guide.
- Supported research on urban planning and urban design guidelines for the Peruvian Amazon.

## AWARDS

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### **Bicentennial Generation Scholarship**

#### **Peruvian Government**

Awarded to Peruvian professionals of high academic performance to finance their postgraduate studies.

### **International Grand Prize for Sustainable Urban Design**

#### **V Edition of the Architectural and Urban Sustainable Design Award - ADUS 2021**

Recognition for the Special Landscape Project for the Rimac River, a proposal for the recovery of historic public spaces in Lima.

### **Circular economy and sustainability**

#### **International Biennial of Architecture and Urbanism - CAP, PERU**

Received this award for one of the interventions of the Special Landscape Project for the Rimac river.

### **2022 & 2018 Excellence award**

#### **Faculty of Architecture and Urbanism PUCP**

Received the Excellence award of the Architecture and Urbanism Faculty, for outstanding students of the faculty.