

Gerardo Ezequiel Martín Carreño

Production spatial-data systems, built to a research standard of reproducibility.

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LinkedIn

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PROFILE

Spatial data scientist, environmental researcher and technology leader, with experience spanning public urbanism, sustainability consultancy, applied research, corporate location intelligence and independent products. I design and ship decision-grade spatial systems and hold them to a research standard of reproducibility: an urban-heat model fusing satellite, 3D-morphology, street-network and computer-vision data across six European cities at 30 metre resolution, from my Bartlett MSc thesis; a cloud-native location-intelligence workflow for European markets at TJX Europe, automating site selection, catchment and cannibalisation; browser-native analytics on Overture data; and open housing evidence across 296 local authorities. MSc Urban Spatial Science, The Bartlett, UCL. Contributed to the CENTRINNO Horizon 2020 programme. Presented at the Spatial Data Science Conference, London, 2025. Currently CTO-designate at CommunityAI.

01 / CAPABILITIES

Technical and research practice

Leadership and architecture Technology strategy, solution architecture, technical due diligence, delivery design, stakeholder translation	Spatial data science GeoAI, spatial statistics, remote sensing, location intelligence, urban modelling, geospatial research	Data engineering Python, SQL, PostGIS, dbt, Snowflake, GeoParquet, DuckDB, reproducible pipelines
Product engineering TypeScript, React, Next.js, MapLibre, deck.gl, APIs, browser-native analytics	Urban and environmental Urban metabolism, circularity, climate adaptation, material flows, housing and public-interest evidence	Critical spatial practice Walking methods, critical cartography, sound, situated interfaces and practice-based research

02 / EXPERIENCE

Professional experience

2026–present	Chief Technology Officer (Designate) CommunityAI, London Leading technology strategy, data architecture and delivery for a mission-led platform connecting procurement decisions with measurable community value.
Sep 2023–May 2026	Full-Stack Spatial Data Scientist TJX Europe, London Led geospatial analysis for European markets. Built cloud-native workflows automating site-selection, catchment and cannibalisation analysis that had required weeks of manual work.
Feb 2022–Feb 2023	Researcher and Spatial Data Analyst Metabolism of Cities (Belgium), from London Developed urban-circularity methods using material flows and stocks.
Jan 2020–Feb 2023	Independent Spatial Data Analyst Canary Islands and Catalonia Urban sustainability consulting, municipal energy and emissions analysis.
Jun 2021–Feb 2022	Data Scientist, then Junior Researcher Metabolic, Amsterdam and London Research and spatial analysis for the CENTRINNO Horizon 2020 programme and circular urban production.
Jul–Dec 2019	Spatial Analyst BCNecoLogia, Barcelona Spatial analysis supporting the Social Superblocks programme.

03 / SELECTED PROJECTS

Selected projects

2026–present	CommunityAI Chief Technology Officer (Designate) Open-data lakehouse and honest spatial-ML validation across the 33,755 England LSOAs.
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2024–present	Shaping Cool Cities Researcher and developer Production data-fusion pipeline across six European cities at 30 metre resolution.
2025–present	chrono.city Founder and full-stack developer Browser-native urban analytics on Overture data, with no server in the loop.
2026–present	Climate Intelligence Founder and full-stack developer Keyless, reproducible climate-exposure engine served as an API and MCP tools.

04 / EDUCATION

Education and training

2022–2024	MSc Urban Spatial Science, Spatial Data Science Centre for Advanced Spatial Analysis, The Bartlett, University College London
Aug–Sep 2023	Decarbonising Cities and the Social Cost of Climate Change MIT Summer School
2018–2019	MSc Sustainable Intervention in the Built Environment (MISMeC) Vallès School of Architecture, Universitat Politècnica de Catalunya
2017–2019	MSc Science and Technology of Sustainability University Research Institute for Sustainability Science and Technologies, Universitat Politècnica de Catalunya
2020	Software Engineering Immersive General Assembly, Paris
2013–2017	BSc Environmental Science, minor in Urban Planning Faculty of Sciences, University of Granada
	Aprende y Emprende, entrepreneurship programme Fundación Prevent, in partnership with ESADE

05 / CERTIFICATIONS

Certifications

GEOSPATIAL AND CLOUD

URBAN AI Practitioner · URBAN AI Academy · March 2026 · Apache Iceberg for Geospatial · Cloud-Native Geospatial Formats · Cartography · Esri · Spatial Data Science · Esri · Spatial Data Science · Yonsei University · BigQuery and Google Cloud training · Google

DATA SCIENCE

Data Science Professional Certificate · IBM · Data Science · HarvardX · Data Analytics Professional Certificate · Google

BUILT ENVIRONMENT

LEED Green Associate preparation

06 / PUBLIC ENGAGEMENT

Selected talks and practice

2025	Spatial Data Science Conference Royal Geographical Society, London
2026	URBAN AI Academy Urban AI Practitioner
2026	School for Poetic Computation SFPC · Disturbing Code session
Ongoing	Independent spatial practice Spatial Derive and public-interest projects

Selected work and full project evidence are available in the work index.