SHIORI SASAKI AIA, ENV SP, LEED AP BD+C
shiori.sasaki@cooper.edu | ssasaki@esri.com

Infrastructure | Asset Management | Geospatial Strategy & Governance

Licensed architect and infrastructure consulting professional working at the intersection of technology and the built environment. Specializes in geospatial technology strategy and governance, asset management, and digital delivery for the built environment, helping organizations connect data, people, and systems to support more resilient, efficient, and equitable outcomes. Draws from experience across architecture, planning, construction, operations, and enterprise technology to bridge disciplines and translate complex frameworks into actionable strategies for infrastructure, maintenance, and long-term value. Focused on advancing asset management as a strategic function and expanding the role of location intelligence in how organizations plan, design, and manage assets and cities in a changing climate.

EDUCATION & CREDENTIALS

M.S. Construction Management, Minor in Business, NYU Tandon School of Engineering, 2020
B.Arch. Architecture, The Cooper Union, Irwin S. Chanin School of Architecture, 2014

Registered Architect: New York #040258 | Colorado #ARC.00407554
Professional Certifications: LEED AP BD+C | IAM Certified | ENV SP | NCARB | OSHA-30

EXPERIENCE

Esri, Professional Services Division, New York, NY
Industry Consultant & Strategic Advisor, AEC Practice, 2022 – Present

- Advised geospatial and IT leadership at key global AEC firms on geospatial program strategy and governance, facilitating discovery workshops, stakeholder alignment, and development of actionable roadmaps to support business resilience, transformation, innovation, and agility.

- Facilitated working group collaboration effort between product teams from Esri and Autodesk, and a key mutual AEC customer on existing solution architecture, identification of future integration enhancements, and innovation strategies.

- Partnered with airport authorities, infrastructure agencies, and utilities to improve data governance, maintenance workflows, and records management through geospatial solutions.

- Supported public and private clients in adopting enterprise COTS solutions and capabilities (ArcGIS Enterprise/GeoBIM/Indoors) to streamline project delivery, data-driven operations, and facility management.

- Supported business requirements gathering and provided subject matter expertise for the NYC Digital Tax Map modernization project which involved the replacement of legacy software and hardware systems with a modern, cloud-based solution capable of ingesting digital BIM submissions and 3D representation of condo, subterranean, and air lots.

- Led geospatial governance and organizational maturity assessments for major AEC, infrastructure and natural resources clients, integrating stakeholder interviews, sentiment surveys, and workshops to define recommended governance structure, operating model, and policy/procedures.

Port Authority of New York & New Jersey, Port Department, New York, NY
Senior Architect, Infrastructure & Capital Planning, 2019 – 2022

- Led cross-functional strategic initiatives across Operations, Maintenance, Security, Leasing, Engineering, Legal, and Technology to advance capital planning, infrastructure modernization, sustainability, and commercial development.

- Enhanced departmental efficiency, collaboration, knowledge management, and situational awareness through the implementation of GIS technology solutions aligned with Port Department's short- and long-term capital, maintenance, and operational objectives.

- Contributed to the development of agency-wide geospatial policy and standards in collaboration with the Enterprise Asset Management Division and IT.

- Led scoping, procurement, and project management of a port-wide electrical infrastructure assessment to understand current state capacity and identify gaps with electrification of yard and fleet equipment.

- Developed a digital solution for a data-driven maintenance dredging needs assessment utilizing bathymetric survey data which was presented at the National Academy of Sciences' Transportation Research Board Freight Data Workshop in 2021.

MTA New York City Transit, Capital Program Management, New York, NY
Architect I, 2018 – 2019
Project Manager, 2017 – 2018
Project Manager Intern, 2016 – 2017

- Delivered infrastructure design management and construction field engineering services across major capital projects, including subway station rehabilitation and elevator/escalator replacement.

- Led internal multi-discipline design team coordination to enhance multi-site project delivery processes.

- Provided field engineering for a major emergency project to clear track drains across the entire subway network, coordinating with Operations, Construction Management, and contractors.

Nelligan White Architects PLLC, New York, NY
Junior Designer, 2014 – 2016

- Developed design and construction documentation for public sector capital improvement projects with a focus on resilience and historic preservation.

- Conducted site inspections, construction administration, and specification development for NYC agencies including NYC School Construction Authority and NYC Housing Authority.

AWARDS & AFFILIATIONS

Young Alumnus of the Year, Cooper Union Alumni Association (2025)
Council Member, Cooper Union Alumni Association (2022 - 2025)
Member: AIA, Institute of Asset Management, NYS GIS Association, NYC GISMO

PRESENTATIONS & WORKSHOPS

Academic / Research

Developing a Digital Twin for Climate Adaptation in New York City (Industry Collaborator)
NSF grant development workshop contributing to Grant Award #2334311.
Cornell University, AAP / CUNY Hunter / Cornell Urban Tech Hub (2024).

Sasaki, S., Brauner, J. *DredGIS+: Data-Driven Dredging Planning at the Port of NY & NJ (using Bathymetric Soundings and Marine Traffic Data)*. Poster presented at the National Academies of Sciences Transportation Research Board Freight Data Workshop (2021).

Professional & Industry

Geospatially Enabling Asset Management (Panel Discussion with Arup and New York Power Authority) Institute of Asset Management, NY/NJ Chapter Quarterly Meeting (2025).

Operationalizing Design Data through BIM & GIS Integration (Featured Presentation)
Greenbuild International Conference & Expo (2024).

Mapping the Future of Technology: GIS for AECO (Panel Discussion)
Chicago Innovate, Chicago Architecture Center (2024).

Invisible Topographies: Exploring the Impact of the Unseen (Panel Discussion)
Harvard Graduate School of Design, Faculty Colloquium Series (2024).

Beyond Spatial Analytics: The Projective Side of GIS (Co-led Technical Workshop)
Harvard Graduate School of Design, Hands-On Workshop (2024).

BIM & GIS Integration (Co-led Technical Workshop)
Esri Geodesign Summit (2023).

Integrating Construction Scheduling & GIS (Lightning Talk)
Autodesk University (2022).

Supercharge Your Autodesk Civil 3D Project with GIS (Technical Session)
Esri Infrastructure Management & GIS Conference (IMGIS) (2022).