

ALBERTO SANTIAGO MARTINEZ

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Summary

Academic librarian and digital scholarship leader with more than 16 years of experience developing research infrastructure for academic libraries. Work focuses on digital repositories, metadata strategy, preservation workflows, AI-enabled research services, UX research, and faculty and student consultation. Experience includes coordinating digital scholarship services, leading cross-institutional projects, implementing systems such as Hyrax, Archivematica, Alma, Primo, and Access to Memory, and supporting research and teaching in the humanities and social sciences.

Professional Experience

Coordinator of Digital Scholarship

El Colegio de México - Biblioteca Daniel Cosío Villegas

Mexico City 2008 – Present

Digital Scholarship Program Coordination: Coordinated library-based digital scholarship services and campus research initiatives, including consultations with faculty and students, development of digital collections, support for metadata and preservation workflows, project planning, training activities, and collaboration with academic departments, technology units, and external partners.

Leadership in Digital Ecosystems: Led a 12-year campus digital strategy that built a scalable research infrastructure for academic work. Work entailed system design and development, integration with institutional workflows and user needs. Systems included implementation of Hyrax, Archivematica, Ex Libris Alma and Primo, Access to Memory as well as a thematic digital collections view system.

Team Management: Supervised and mentored a multidisciplinary team, fostering professional growth and innovation.

Project/Product Management:

Legislación Mexicana(Grant-funded) - Agentic AI RAG platform that uses Google Gemini and OpenRouter to query a digital edition of Dublán and Lozano's Legislación mexicana, comprising a 15 million token corpus covering 300 years of Mexican legislation.

United Nations General Debate Corpus 1946-2025 (Grant-funded)- A RAG-based research platform built from the Harvard Dataverse United Nations General Debate Corpus, 1946 to 2025, designed to support semantic search and analysis of state discourse, scheduled for publication in fall 2026.

Repository of Documentation of Disappeared Persons (MacArthur Grant-funded) - Collaborative digital repository developed with CRL, COLMEX, UIA, and UNAM to gather, preserve, and provide structured access to human rights documentation on disappearances in Mexico after 2006. Utilizes WordPress and Hyrax.

Zapata Vive - Thematic digital collection initiative on the Mexican Revolution, utilizing Django and connecting with the Hyrax Digital Repository and Ex Libris Alma for search and retrieval; includes a curated subject guide on Emiliano Zapata's Revolución del Sur, as well as geospatial representations of metadata.

Cartillas Indígenas - A thematic digital collection that provides access to historical Indigenous-language learning materials from the Summer Institute of Linguistics.

Movimientos Armados - Post-custodial digital collection view connected to Hyrax, designed to make clandestine political publications from Latin America and the Caribbean searchable online and available for semantic harvesting, beginning with Madera, the underground newspaper of Mexico's Liga Comunista 23 de Septiembre.

Hyrax Digital Repository - Institutional digital repository platform developed to support the management, preservation, and discovery of scholarly and cultural heritage materials at El Colegio de México, integrating metadata workflows, digital preservation practices, and public access services for research collections, publications, archival materials, and thematic digital projects.

Additional Responsibilities:

Spearheaded the organizational design and launch of new operational units, leading strategic planning, personnel profiling, and recruitment initiatives.

Spearheaded the integration of UX and CX principles into library operations, cultivating a culture of user-centered decision-making through staff mentorship and the institutionalization of strategic design methodologies.

Documented and maintained policies and procedures

Generated reports

Executed user satisfaction research and comprehensive usability testing for all library technology systems.

Served as the primary institutional liaison and strategic representative for various collaborative initiatives and cross-organizational partnerships.

Interim Director

San Joaquin Valley Library System - Fresno, CA

2019

Managed a \$6 million operational budget across 10 public library jurisdictions.

Oversaw the implementation and operation of a system-wide ILS and online payment solutions.

Led efforts in grant writing, RFP development, and strategic planning.

Supervised staff, budget administration, and long-term strategic initiatives.

Project Lead/Supervisor

Hispanic American Historical Review Online - Duke University Press

2013 – 2020

Created a digital counterpart to enhance the journal's reach, including blogs and online peer review.

Oversaw implementation, supervised a 30-member team, and promoted platform use internationally.

Education

Master's Degree in Library and Information Studies

University of Texas iSchool, Austin, TX, 2008

Bachelor of Arts in History, Minor: Mexican American Studies

University of Houston, Houston, TX, 2004

Associate's Degree

Houston Community College, Houston, TX, 1999

Publications

Books and Chapters:

"Constructing a Model for Mexican Libraries in the 21st Century,"

ALA Editions, 2017.

"Consideraciones para la creación de un centro de humanidades digitales,"

UNAM, 2015.

"Participación de la comunidad de El Colegio de México en el proceso de planeación del Edificio Mario Ojeda Gómez de la Biblioteca Daniel Cosío Villegas (BDCV/MOG)",

Arquitectura y ambientes de bibliotecas. Ciudad de México. Universidad Nacional Autónoma de México, Dirección General de Bibliotecas, 2020. Coauthors: Micaela Chávez Villa, Valentín Ortiz Reyes, Victor Julian Cid Carmona, Tomás Bocanegra Esqueda.

"Proyecto de modernización del edificio de la Biblioteca Daniel Cosío Villegas (BDCV) de El Colegio de México (COLMEX): consideraciones e indicadores."

Normas para la construcción de bibliotecas: una aproximación para su evaluación. San Luis Potosí. Escuela de Ciencias de la Información, Universidad Autónoma de San Luis Potosí, 2015. Coauthors: Micaela Chávez Villa, Alberto Santiago Martínez, Valentín Ortiz, Cristina Restrepo Arango.

Journal Articles & Blogs:

**An AI-enabled digital research assistant for the Legislación Mexicana corpus
Information Technology and Libraries**

Information Technology and Libraries (ITAL) special issue on Generative AI in library, archive, and museum research environments, Fall 2026

"Rostros del zapatismo,"

CMCH, 2019.

"UXLIB y la perspectiva emergente del Bibliotecario de Experiencia de Usuario,"

Biblioteca Daniel Cosío Villegas Blog, 2022.

Teaching Experience

Adjunct Graduate Studies Professor, Thesis Seminar II

Master's in Library Science, El Colegio de México, 2012

Adjunct Graduate Studies Professor, Evolution and Trends in Information Technology

Graduate Studies and Research, Universidad La Salle, 2010 to 2011

Instructor, Technology Resource Management in Libraries II

Master's in Library Science, El Colegio de México, 2009

Instructor, Information Resource Management

Master's in Library Science, El Colegio de México, 2009

Dissertation Director

Inocencio Héctor González Araujo, *Usability Studies in Web Interfaces of Academic Libraries in Mexico: A Methodological Proposal for Their Design*. Master's in Library Science, Biblioteca Daniel Cosío Villegas, El Colegio de México, A.C., Mexico City, December 10, 2012. Served as thesis advisor.

Scholarly Presentations and Invited Lectures

Fantastic Futures 2026

The Implementation of AI in Research Methodologies: A Case Study of Uses of the “Global South” in the United Nations General Assembly
Library of Congress, Fall 2026

Fantastic Futures 2025

Challenges of Building a RAG System for Library Reference
The British Library, 2025

Digital Library Forum

Bridging Knowledge and Society: The Role of Libraries in Connecting Academia with Social Impact
University of Michigan, 2024

DÍSCOLA: Digital Scholarship in Latin America, SALALM

Roundtable 10: Project Management in Digital Scholarship
Library of Congress, 2024

Seminar on the Acquisition of Latin American Library Materials, SALALM 69

Co-organizer: DiScola Roundtable on Project Management
Tulane University, New Orleans, 2024

Despatriarcalizar a la Inteligencia Artificial

Keynote: AI in the COLMEX library: Preparándonos para el futuro
Mexico City, 2024

Harvard Dataverse Community Meeting

Harvesting Data from the Field to the Cloud
CIMMYT, Texcoco, 2024

IX Foro Itinerante de la Red de Unidades de Información de Oaxaca

Cartillas de Lectoescritura para la Enseñanza de Lenguas Indígenas
Oaxaca, Mexico, 2023

Presentación del Ecosistema Académico de El Colegio de México

Keynote
Biblioteca Nacional de Perú, Lima, 2022

Presentación de Libro: Emiliano Zapata: Testimonios de la Revolución del Sur

Organizer
Biblioteca Daniel Cosío Villegas, El Colegio de México, 2022

Emerging Trends in Library Technology

Keynote: Development of Digital Research Infrastructures
Pandit Deendayal Energy University, Gandhinagar, 2021

Seminario Laboratorio en Humanidades Digitales

Panelist: Sobre la Coordinación de Innovación Digital
Universidad Autónoma de Yucatán, Mérida, 2020

MGG Digitalisation Conference

Commentator
Programme on Inter and Transnational Cooperation, Deutsches Institut für Entwicklungspolitik,
Rio de Janeiro, 2018

Samvera Connect

Poster: Indexed Text Search Microservice for Data Catalogs of the Mexican National Council for Science and Technology

Northwestern University, Chicago, Illinois, 2017

LASA 2016

A Digital Innovation Lab at El Colegio de México

Latin American Studies Association, New York City, 2016

SeminarioHD

Humanidades Digitales en El COLMEX

Biblioteca Daniel Cosío Villegas, El Colegio de México, 2016

Zapata Vive

Co-organizer: Presentación de Sistema Rostros del Zapatismo

Biblioteca Daniel Cosío Villegas, El Colegio de México, 2016

Dimensiones Digitales en Bibliotecas Públicas

Proyectos Digitales y Bibliotecas Públicas

Biblioteca Vasconcelos, Mexico City, 2016

Seminario sobre Servicios y Políticas de Información

Crónica de una Evaluación Imprevista: El Ala Mario Ojeda de la Biblioteca Daniel Cosío Villegas

Universidad Autónoma del Carmen, Ciudad del Carmen, 2015

III Coloquio de Investigación Bibliotecológica y de la Información

Las Tecnologías de la Información y de la Comunicación, Tema de Confluencia de Diversas Disciplinas

UNAM, Mexico City, 2014

LASA 2014

Digital Initiatives at the Daniel Cosío Villegas Library

Chicago, Illinois, 2014

Segundo Encuentro de Humanidades Digitales

Reingeniería de Bibliotecas para Humanidades Digitales

Mexico City, 2014

Feria Internacional del Libro Universitario

Panelist: Humanidades Digitales

Universidad Veracruzana, Xalapa, 2014

XII Congreso Internacional de Información, Info 2012

Proyecto Mediateca Virtual de Recursos Académicos

Havana, Cuba, 2012

Congreso AMIGOS

Poster: Mediateca Digital de Recursos Académicos

Puebla, Mexico, 2011

Skills

Technical: Digital scholarship, research infrastructure, digital repositories, metadata strategy and mapping, digital preservation workflows, library systems implementation, UX research, information architecture, AI and RAG systems, data management, workflow documentation

Management: Project management, team supervision, grant and RFP development, vendor and systems selection, policy and procedure development, stakeholder coordination, training, public speaking, institutional representation

Tools: Hyrax, Ex Libris Alma and Primo, Archivematica, Omeka, WordPress, OJS, Elasticsearch, Python, Google Sheets, FAST API, OCLC APIs, Google Gemini, OpenRouter

Languages

English: Native

Spanish: Native