

Jonathan Malchow Vega

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Academic CV | Information Science | Archives | Metadata | History | Applied Computing

PROFILE

MSLIS graduate and Harvard ALM History candidate whose teaching and research interests sit at the intersection of information science, archives, metadata, knowledge organization, cultural heritage informatics, history, applied computing, information governance, and responsible AI. I have spent my career organizing complexity, governing information, and building systems people can trust; that experience informs a structured, candid, inclusive, and practice-based teaching approach for online and adult learners.

TEACHING AREAS

Information Science: Information organization, metadata, controlled vocabularies, taxonomy, ontology, knowledge organization, information architecture

Archives and CHI: Archival description, appraisal, arrangement and access, digital stewardship, cultural heritage informatics, reparative description

History: Historical methods, archival evidence, primary-source analysis, public history, research writing, social justice, power, access, and institutional records

Applied Computing and Information Technology: Database management, SQL, web technologies, metadata systems, digital stewardship tools, AI literacy, responsible AI, and technology for libraries, archives, and cultural heritage organizations

Governance and AI: Information governance, data governance, AI governance, NIST AI RMF, ISO/IEC 42001, EU AI Act, AI-ready metadata, LLMs, digital ethics

Professional Practice: Online instruction, adult learning, advising, curriculum development, assessment, documentation, reflective practice

ACADEMIC AND PROFESSIONAL EXPERIENCE

Faculty-Student Collaborative Fellow / Graduate Research Assistant | Simmons University HCI/VIS Research Group | 2025 - June 2026

- Supported a peer-reviewed systematic review on mid-air hand-gesture interaction in data visualization, organizing research evidence through classification, coding standards, and structured synthesis.
- Co-designed a classification system with structured coding dimensions and repeatable inclusion criteria, contributing to research synthesis, taxonomy design, and scholarly analysis.
- Built Excel-based classification matrices and HTML heatmaps to surface patterns in the corpus and support transparent visual analysis.

Research Collaborator, Systematic Review Paper | Simmons University HCI/VIS Research Group | June 2026 - Present

- Continue contributing to the paper through taxonomy refinement, classification review, evidence synthesis, and manuscript revision.

Director of Operations and Business Development | Property Management One | 2015 - 2021

- Led governance and operational programs for complex community associations, working with elected boards to implement policy, manage compliance, oversee budgets, coordinate vendor governance, communicate with stakeholders, and maintain operational continuity during the COVID-19 pandemic.
- Managed records, board communications, financial reporting, compliance documentation, and platform implementation across a 140-property, 2,200-unit portfolio.

Owner and Operator | SpeedQueen Laundry | December 2023 - Present

- Operate a full-service small business and manage customer service, web presence, local outreach, vendor coordination, CRM/POS records, and service workflows.

Director of Operations and E-Commerce | MindinMotion | 2015 - 2021

- Directed operations, e-commerce workflows, product categorization, vendor coordination, platform migration, and business analytics for an early-stage apparel company.

EARLIER CAREER FOUNDATION

Earlier Academic, Program, and Visual Systems Roles | University of Phoenix; PRESHCO Study Abroad Consortium; Guess Inc.; Rainbow Apparel; Gap | 2001 - 2009

- Built early experience in adult learning operations, learner support, faculty coordination, study abroad administration, and structured academic program delivery.
- Developed practical experience in visual taxonomy, product grouping, navigation, display standards, and how physical information architecture shapes behavior.

SELECTED PROJECTS

Metadata Schema Creation and Crosswalking | Simmons University |

- Created Dublin Core and CDWA-Lite XML records validated in oXygen; applied Getty vocabularies for authority-controlled description; built PREMIS preservation metadata and RDF crosswalking from Dublin Core to WikiData.

Archival Finding Aid Creation | Simmons University |

- Built multi-level DACS-compliant finding aids with subject analysis using LCNAF and LCSH; proposed RDA headings for unauthorized names; encoded in EAD3 XML using oXygen to make archival context more findable and accountable.

Relational Database and Web Application | Simmons University |

- Designed and implemented a normalized MySQL database with hierarchical category structures and a PHP/HTML search and CRUD interface, demonstrating taxonomy-driven data modeling and governed retrieval.

EDUCATION

Master of Science in Library and Information Science (MSLIS), Archives Management | Simmons University | Conferred May 2026

- Coursework included metadata, controlled vocabularies, information organization, database management, digital stewardship, archival description, linked data concepts, technology for information professionals, and digital forensics.

Master of Liberal Arts in Extension Studies, History | Harvard Extension School | Expected Spring 2027

- Thesis work uses archival evidence, Freedom of Information disclosures, legal records, source authority, and structured historical analysis.

Bachelor of Liberal Arts in Extension Studies, History and Finance, cum laude | Harvard Extension School | Conferred March 2024

Certificate in Social Justice | Harvard Extension School | Completed

PROFESSIONAL ASSOCIATIONS

- International Society for Knowledge Organization (ISKO), Member.
- International Association of Privacy Professionals (IAPP), Member.

CERTIFICATIONS AND PROFESSIONAL DEVELOPMENT

- Taxonomy Boot Camp London 2026, Certificate of Attendance: semantic interoperability, SKOS/RDF linked data, knowledge graphs, ontologies, taxonomy governance, terminology management, large language models (LLMs), and semantic layers for generative AI and RAG.
- TESOL Certificate, Massachusetts Bay Community College: adult-learning, instructional practice, and communication across learner backgrounds.
- SQL Certificate, LinkedIn Learning: SQL querying, relational database concepts, and structured data retrieval.
- IAPP Artificial Intelligence Governance Professional (AIGP): candidate/preparation in progress; focus areas include AI governance, NIST AI RMF, ISO/IEC 42001, EU AI Act, AI inventory, AI risk assessment, human oversight, documentation, and responsible AI practices.
- MIT xPRO Professional Certificate in Advanced Analytics with AI, ML, and Data Science: enrolled.

RESEARCH INTERESTS

- Governance of information across archives, data systems, and AI-enabled discovery environments.
- Metadata, taxonomy, ontology, and knowledge organization as infrastructure for trustworthy AI and institutional accountability.
- Cultural heritage informatics, archival evidence, reparative description, access, and power in institutional records.