

Jonathan Malchow Vega

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Knowledge Architecture | Metadata | Taxonomy | Ontology | AI-Ready Information

SUMMARY

Information governance and knowledge organization professional who has spent a career organizing complexity, governing information, and building systems people can trust. My work connects physical and digital information architecture: organizing products, records, assets, research evidence, and enterprise knowledge so people and systems can find, trust, govern, and use information. MSLIS graduate with hands-on projects in metadata schemas, XML, authority control, linked data concepts, relational database design, archival description, taxonomy development, and AI-ready discovery systems.

CORE COMPETENCIES

Knowledge Organization: Metadata, taxonomy, ontology, controlled vocabularies, knowledge organization, information architecture, semantic frameworks

AI-Ready Information: Large language models (LLMs), knowledge graphs, data catalogs, business glossaries, semantic search, RAG concepts, AI governance, AI inventory concepts, human oversight

Standards and Methods: Dublin Core, CDWA-Lite, PREMIS, DACS, EAD3, LCSH, LCNAF, Getty vocabularies, RDF/WikiData concepts, PRISMA

Tools: oXygen XML Editor, SQL, MySQL, Excel, HTML/CSS, PHP exposure, Python exposure, Google Workspace, Netlify, GoDaddy, LLM-assisted research and documentation workflows

SELECTED EXPERIENCE

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

- Supported a systematic review paper on mid-air hand-gesture interaction in data visualization, organizing a growing body of research evidence into structured, reusable analytical categories.
- Co-designed an emergent classification system for the paper, creating coding dimensions, inclusion criteria, and repeatable classification logic.
- Built structured coding spreadsheets and HTML heatmaps mapping gesture form to interaction effect; developed the sensing proximity gradient framework as a formal inclusion criterion.
- Translated ambiguous research evidence into controlled analytical categories, demonstrating taxonomy design, metadata modeling, and knowledge organization.

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

- Continue contributing to the paper as the research corpus expands, supporting taxonomy refinement, classification consistency, evidence synthesis, and revision.

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

- Designed and maintained product categorization across Women's, Men's, Girl's, and Accessories lines, governing naming, product grouping, attribute consistency, and channel-ready catalog data.
- Led a Shopify-to-QuickBooks migration, normalizing product and transaction data, restructuring workflows, and recovering 40 hours per week of operational labor.
- Used product-line analysis, supplier data, assortment planning, and customer behavior to connect category structure with approximately \$500,000 in annual revenue.

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

- Built standardized asset classification and reporting structures for a 140-property, 2,200-unit portfolio, aligning owners, HOA boards, co-op shareholders, staff, and vendors around trusted portfolio information.
- Implemented Appfolio as a shared system of record, defining asset attributes, access roles, reporting cadences, documentation standards, and governance workflows.
- Managed records, financial information, vendor data, maintenance workflows, compliance documentation, and board communications that supported complex decision-making across properties.

Store Manager | Forever 21, Plano, TX | 2013 - 2014

- Increased revenue 30% in six months through merchandising, conversion analysis, product grouping, and customer-flow improvements.
- Built early practical experience in physical information architecture: classification, categorization, navigation, wayfinding, user behavior, and product placement.

EARLIER CAREER FOUNDATION

Assistant Business Manager | Alliance Residential Company | 2010 - 2013

- Managed leasing pipeline reporting, weekly KPI reviews, expense controls, resident data, and capital improvement tracking; closed 15+ leases per month and reduced operating costs 12%.
- Recognized as Assistant Business Manager of the Year (2012) out of 550 colleagues, grounding later governance work in reporting discipline, service operations, and data-backed accountability.

Earlier Roles | PRESHCO Study Abroad Consortium; University of Phoenix; Guess Inc.; Rainbow Apparel; Gap | 2001 - 2009

- Built the foundation for my current work through cross-cultural academic administration, doctoral residency operations, adult learner support, visual merchandising, product categorization, and retail information architecture.

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

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.