

JONATHAN MALCHOW VEGA

Open to Relocation

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ACADEMIC CV | INFORMATION SCIENCE | ARCHIVES | METADATA | HISTORY | APPLIED COMPUTING

SUMMARY

MSLIS graduate, and Harvard ALM in History with all coursework completed and the thesis in progress, whose teaching and research interests sit at the intersection of information science, archives, metadata, knowledge organization, cultural heritage informatics, history, applied computing, governance, and responsible AI. Brings a structured, candid, inclusive, and practice-based approach to online and adult learning.

CORE COMPETENCIES

Information organization • Metadata • Taxonomy • Archives • Digital stewardship • Historical methods • Primary-source analysis • Database management • SQL • Web technologies • Information governance • Responsible AI • Adult learning • Online instruction • Curriculum development

ACADEMIC AND PROFESSIONAL EXPERIENCE

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

- Designed the analytical framework for the paper's discussion chapter: what explains the distribution of findings across the corpus, where the methods measurably succeed and fail, and what remains unexamined, giving the survey evaluative and generative power alongside its descriptive account.
- Maintain a multi-axis classification matrix over a 216-paper corpus spanning nine visualization interaction contexts, using dense and empty cells to separate evidenced gaps from areas simply never studied.
- Apply and document the inclusion rule distinguishing interactions that encode the data from those that only control an interface, holding classification consistent as the corpus expands.

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

- Co-designed an emergent classification system with coding dimensions, inclusion criteria, and repeatable classification logic for a systematic review.
- Built structured coding spreadsheets and HTML heatmaps; translated ambiguous evidence into controlled analytical categories.

Owner and Operator | SpeedQueen Laundry | December 2023–Present

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

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

- Governed records, reporting, vendors, budgets, compliance, and stakeholder communications across 140 properties and 2,200 units.
- Translated CC&Rs, bylaws, board decisions, elections, minutes, reserve planning, and compliance obligations into documented processes and audit trails.
- Implemented Appfolio as a system of record with role-based access, reporting workflows, data standards, UAT, documentation, and adoption.
- Maintained continuity during COVID-19 by interpreting changing guidance, documenting decisions, communicating policy shifts, and adapting procedures.
- Expanded the managed portfolio 25% through client development and strategic partnerships.

Director of Operations and E-Commerce | MindinMotion | 2015–2021 (concurrent with Property Management One)

- Governed product categorization, naming, grouping, attributes, and channel-ready catalog information across multiple apparel lines.
- Led a Shopify-to-QuickBooks migration, normalized product and transaction data, restructured workflows, and recovered 40 hours per week of operational labor.

- Connected category structure, assortment planning, supplier data, and customer behavior with approximately \$500,000 in annual revenue.

SELECTED PROJECTS

Metadata Schema Creation and Crosswalking

- Created and validated XML metadata, authority-controlled description, preservation metadata, and linked-data crosswalking concepts.

Archival Finding Aid Creation

- Built DACS-compliant, EAD3-encoded finding aids with LCNAF/LCSH subject analysis.

Relational Database and Web Application

- Designed a normalized MySQL database with hierarchical categories and a search/CRUD interface.

EDUCATION

- Master of Science in Library and Information Science (MSLIS), Archives Management, Simmons University, 2024–2026 (conferred May 2026).
- Master of Liberal Arts in Extension Studies, History, Harvard Extension School, 2024–2027. All degree coursework completed, 3.77 GPA; thesis in progress, expected Spring 2027.
- Bachelor of Liberal Arts in Extension Studies, History, with a minor in Finance, cum laude, Harvard Extension School, 2021–2024 (conferred March 2024).

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- MIT xPRO Professional Certificate in Advanced Analytics with AI, ML, and Data Science (enrolled).
- IAPP Artificial Intelligence Governance Professional (AIGP): candidate, preparation in progress.
- Taxonomy Boot Camp London 2026, Certificate of Attendance; SQL Certificate, LinkedIn Learning; TESOL Certificate, Massachusetts Bay Community College.

PROFESSIONAL AFFILIATIONS

International Society for Knowledge Organization (ISKO) • International Association of Privacy Professionals (IAPP)

RESEARCH IN PROGRESS

- Systematic review of mid-air hand gesture interaction in data visualization. With Dr. Zona Kostic, Simmons University HCI/VIS Research Group. Submitted to IEEE VIS 2026; under revision. PRISMA-style protocol with independent dual screening; 216 classified papers across nine visualization interaction contexts, drawn from a 497-item working library, with coding extended from the paper level to the gesture level to classify individual gestures against the visualization actions they perform.

TEACHING & 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 accountability.
- Cultural heritage informatics, archival evidence, reparative description, access, and power in institutional records.
- Long-term curriculum development in knowledge organization, semantics, taxonomy/ontology, knowledge graphs, governance, and AI.