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Information Management for Libraries and Archives

Career Focus

Create diverse, accessible collections through library/archival practices and system development.

Portfolio of work: https://aehulet.github.io

Skill Profile

Library and Archival Practice; Information Science

- **Information organization**: domain analysis, classification, taxonomies, thesauri.
- **Information resource description**: cataloging, subject analysis, vocabulary control and abstracting.
- **Metadata and content standards**: MARC, Dublin Core, MODS, EAD, RDA, DACS, BIBFRAME, ANSI/NISO, etc.
- **Archival practice**: digital and analog; appraisal, accession, arrangement, finding aids, search & retrieval.
- **Collection development** for specific knowledge communities, emphasizing diversity, equity, and inclusion.
- **Information literacy:** info seeking behaviors, knowledge communities.
- **Platforms and tools:** OpenRefine, ArchivesSpace, Protege, Sinopia, OCLC Connexion, ePADD, Oxygen XML, Jupyter Labs.

Software Development

- **Software Development methods**: application modeling, web services, object-orientation, relational design, search & retrieval design, performance analysis; delivery processes (e.g. Agile, SCRUM, "Waterfall").
- **Web development and scripting:** Python esp. w/ Django Framework, JavaScript, HTML 5, CSS, PHP.
- **Architectural concepts:** MVC, service orientation, messaging environments, scalability, client-server, n-tier.
- **Other programming experience**: .NET framework, C#, Visual Basic.
- **Data access & management:** RDF-based ontologies, linked data and knowledge graphs, SPARQL; RDBMS systems and warehousing, SQL; ETL (e.g. Informatica); cold storage (e.g. Iron Mountain); Data retrieval, transformation & reconciliation: JSON, XML.
- **Text & Data Mining:** extraction for statistical analysis, machine learning.
- **Tools & platforms:** IDEs: Pycharm, Bluefish; Git/Github, virtualization, Node.js (familiarity), Google Apps, RapidMiner, MS Windows, Linux (esp. Ubuntu).

Project Management

- **Task management:** organizational tools, status tracking and reporting.
- **Team leadership**: collaboration techniques, technical issue resolution.
- **Planning & Estimation**: software LOE estimation; schedule construction; forecasting.
- **Vendor management**: bid & contract analysis; team integration; contract compliance
- **Reporting & Analysis**: costs, financial performance.

Teaching

- **Collegiate writing:** composition, rhetoric, argument, research paper writing.
- **Information literacy**: "one-shot" library instruction, modeling instruction on course designs.
- **Literary history and analysis:** fiction, poetry, drama.
- **Creative writing**: creative process and compositional techniques, esp. for poetry.

Employment History

- **University of Nevada, Las Vegas.** Wikidata Developer. 2023-present.
- **Ohana Dolce, Inc**. Business Manager, Portland, OR. 2018-2020.
- **Portland Public Schools**. Sr. IT Project Manager, Portland, OR. 2015-2018.
- **Pierce College**. Adjunct Professor, Humanities, Puyallup, WA. 2014-2015.
- **IBM (Seterus)**. Sr. Project Manager. Beaverton, OR. 2013-2014.
- **Spatial Development International**. Delivery Director. Seattle, WA. 2012.
- **Clean Energy Works Oregon**. Business Systems Director. Portland, OR. 2010-2012.
- **CH2M HILL/Critigen**. Sr. Information Solutions Manager. Portland, OR. 2004-2010.
- **Gillette Co. (Oral-B Labs)**. Software Developer/Analyst. Iowa City, IA. 2000-2004.
- **University of California, Irvine**. Graduate Student Instructor. Irvine, CA. 1998-2000.
- **Woodward-Clyde**. Application Developer. Seattle, WA. 1994-1998.
- **Group Health Cooperative**. Research Assistant. Seattle, WA. 1991-1994.

Selected Work Summaries

WikiframeVG (Visual Graph) Discovery Tool Development, University of Nevada, Las Vegas (2023). Project developer for WikiframeVG, a search & discovery application for UNLV Special Collections & Archives data entered on Wikidata by UNLV Libraries staff. Data set highlights collections about historically marginalized communities, such as the Las Vegas Black community and Las Vegas LGBTQ community. Application provides multiple search tools and renders results in a list and a visual graph, which shows semantic relationships between results in a visual. Results links to full resource descriptions on the UNLV Special Collections portal. Available at https://wikiframe.library.unlv.edu. Presented prototype at LD4 2023 conference.

Digital Archiving Practicum, Seattle Municipal Archives (2022-2023). Using ePADD and ArchivesSpace, created series descriptions and archival repositories for the Seattle Department of Planning and Development Director's Office. Used ePADD's machine learning functionality to

organize, weed, and classify email records according to SMA policies for email archives. Used the DACS standard for archival descriptions.

Institutional Data Project, San Diego State University (2022). As a metadata librarian intern, helped create SDSU faculty profiles on Wikidata for integration into planned institutional repository. Assisted with metadata design and validation. Manually enhanced faculty profiles in College of Arts and Letters. Identified ontology issues and expanded the team's understanding of appropriate descriptive practices. Drafted training guide for library staff. Developed SPARQL queries for data quality review, visualization, and analysis. Proposed and wrote prototype reporting application in JavaScript/SPARQL/Google Sheets. Presented project findings at LD4 2022 conference.

Machine Learning Final Project, San Jose State University (2021). Using RapidMiner, created process workflows that classified different types of feminist websites. Researched terms for different feminist schools. Wrote algorithms that created training and testing corpuses. Used neural network functions to create a vector model of terms. Applied model to test corpus for classification. Refined machine learning node configurations and term inputs to improve classification results.

Born Digital Records Management, Portland Public Schools (2018). Led the development of .NET software utilities to extract annual student grade reports from the Student Information System (SIS), format them, and load them into the Docuware document management system. Using SQL and SSRS, integrated data from data warehouse, Docuware, and SIS to support ongoing metadata QA and reconciliation for digital records creation at schools and the records department.

Student Records Digitization Program, Portland Public Schools (2016-17). Was the program manager for PPS's effort to digitize all active student records held at 84 schools. Developed digitization procedures and metadata design. Developed training materials for the Docuware records management system. Hired and trained digitization staff, planned digitization schedule with schools as well as the paper records disposal schedule with records management vendor. Digitized all records at 24 schools before turning operations over to the Records department.

Detective Fiction Expository Writing Course, Pierce College (2014-2015). As an adjunct professor, designed and taught courses in academic/professional writing. Areas of focus included composition, textual analysis, rhetoric, argument, and research techniques. Students read detective stories and wrote three multi-draft papers about them. Used the figure of the literary detective as an analogy for the student writer to familiarize students with the importance of investigation, analysis and reasoning in the writing process. For the fourth assignment, developed and co-taught library instruction sessions with the college librarian that introduced library research and provided a transition to research paper writing, the next course in the composition series.

Professional Products Order Management System, Oral-B Labs (2004). Designed and built "24-7" North American order system for dental professionals. System processed 1500 orders/day and handled order priority & queuing; event tracking; production line tools; order process control and user security. Integrated with both plant Materials Resource Planning (MRP) system and legacy Enterprise Resource Planning (ERP) system. System saved over $400,000 in its first year. Was one of three engineering projects awarded Gillette's Innovation Challenge Prize in 2004.

Papers & Presentations

Hulet, A., Melvin, D. O., & Lampert, C. K. (2023, October 31). WikiframeVG: A Search and Discovery Application for Wikidata Projects. [presentation]. LD4 Wikidata Affinity Group. Retrieved from osf.io/kh4t9

Melvin, D., Hulet, A. & Lampert, C. (2023). WikiframeVG: A SPARQL template-based wikiframe for Wikidata graph exploration and visualization. International Semantic Web Conference 2023. Conference proceedings. Manuscript in press.

Melvin, D., & Hulet, A. (2023, July 12). WikiframeVG: A SPARQL template-based wikiframe for Wikidata graph exploration. [Conference presentation]. LD4 Conference on Linked Data. Retrieved from https://doi.org/10.17605/OSF.IO/P9BY4

Heng, G., Prasad, S., & Hulet, A. (2022, July 13) Using Python and Wikibot to build and update faculty profiles in Wikidata. [Conference presentation]. LD4 Conference on Linked Data.

Hulet, A., Barton, J., & Higbee, D. (2007). Reading detectives: Teaching analysis and argument in first-year writing. In J.H. Anderson & C.R. Farris (Eds.), Integrating Literature and Writing Instruction (pp 174-193). The Modern Language Association of America.

Education

- **Master of Library & Information Science**. San Jose State University. 2022.
  - Master's Portfolio: https://bit.ly/3RHl2lK
- **Master of Fine Arts,** English. University of California, Irvine. 2000. Regents Fellow.
- **Bachelor of Arts**, Sociology & Anthropology. Carleton College. 1990. *magna cum laude.*