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# Sam Grabus

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## EDUCATION

*PhD, Information Science* (In Progress, A.B.D.); College of Computing and Informatics,  
Drexel University, Philadelphia PA

- Working Title, Dissertation: “Historical Subject Representation: An Analysis of Historical Vocabularies for Temporally Aligned and Contextual Access Points”
- Proposal Defended: April 2021
- Comprehensive Exams: Passed
- Anticipated graduation: 2021-2022

*Master of Science, Library & Information Science* (2016); College of Computing & Informatics,  
Drexel University, Philadelphia, PA

*BS, English Language and Literature* (2008); Towson University, Towson, Maryland

## PUBLICATIONS

### Papers

Greene, M., Greenberg, J., **Grabus, S.** (In Press, 2021). A Framework for Facilitating the Development of Data Sharing and Use Agreements. In *Proceedings from North American Symposium on Knowledge Organization*.

Kelly, M., Rauch, C. B., Greenberg, J., **Grabus, S.**, Boone, J., Kunze, J., and Logan, P. M. (2021). Advancing ARKs in the Historical Ontology Space. *Code4lib Journal*. Issue 50, 2021-02-10:  
<https://journal.code4lib.org/articles/15608>

Kelly, M., Greenberg, J., Rauch, C. B., **Grabus, S.**, & Boone, J. P. (In Press, December 10-13, 2020). A Computational Approach to Historical Ontologies. 2020 IEEE International Conference on Big Data (IEEE BigData 2020), Atlanta, Georgia, US. Preprint: <https://arxiv.org/abs/2011.13114>

**Grabus, S.** (2020). Evaluating the impact of the long-S upon 18th-Century Encyclopedia Britannica Automatic Subject Metadata Generation Results. *Information Technology and Libraries*, 39(3).

<https://doi.org/10.6017/ital.v39i3.12235>

\* *Winner of 2020 LITA/Ex Libris Student Writing Award\**

**Grabus, S.** & Pascua, S. (2019). Conference review: The 7th North American symposium on knowledge organization (NASKO 2019). *Cataloging & Classification Quarterly*, 57(6).

**Grabus, S.** & Greenberg, J. (2019). The Landscape of Rights and Licensing Initiatives for Data Sharing. *Data Science Journal*, 18: 29, pp. 1–11. <https://doi.org/10.5334/dsj-2019-029>

**Grabus, S.** & Greenberg, J. (2019). Expanded directory: Standards: Tools, and Community Initiatives. *Data Science Journal*, 18: 29. DOI: <https://doi.org/10.5334/dsj-2019-029.s1>.

Logan, P. M., Greenberg, J., & **Grabus, S.** (2019). Knowledge Representation: Old, New, and Automated Indexing. In *proceedings of Digital Humanities Conference 2019*, Utrecht, Netherlands.

**Grabus, S.**, Greenberg, J., Logan, P., Boone, J. (2019). Optimizing Aboutness for Automatically Indexing Full Text 19th-Century Encyclopedia Britannica Entries. In *Proceedings from North American Symposium on Knowledge Organization*, 7, Philadelphia, Pennsylvania, June 13-14, 2019.

**Grabus, S.**, & Greenberg, J. (2017). Toward a Metadata Framework for Sharing Sensitive and Closed Data: An Analysis of Data Sharing Agreement Attributes. In E. Garoufallou, S. Virkus, R. Siatri, & D. Koutsomiha (Eds.), *Metadata and Semantic Research: 11th International Conference, MTSR 2017, Tallinn, Estonia, November 28 -- December 1, 2017, Proceedings* (pp. 300–311). Cham: Springer International Publishing. [https://doi.org/10.1007/978-3-319-70863-8\\_29](https://doi.org/10.1007/978-3-319-70863-8_29)

## Posters and Presentations

Kelly, M., Greenberg, J., Rauch, C. B., **Grabus, S.**, Boone, J. P., Kunze, J., & Logan, P. (Pidapalooza 2021). Of Arks and Ontologies. Available at <https://zenodo.org/record/4476706>

Greenberg, J., **Grabus, S.**, Johs, A. Doran, W., Adair, J. (2019). Finding FAIR in DataSAR: A Repository of Data Sharing Agreements. Drexel-CODATA FAIR-RRDM Workshop 2019, Philadelphia, Pennsylvania, March 31, 2019.

**Grabus, S.** (2018). *Resources for understanding the data sharing landscape: Rights, licensing, and related initiatives*. Poster presented at the Research Data Alliance 11th Plenary Meeting. Berlin, Germany.

Greenberg, J., **Grabus, S.**, and Liu, H. (2017). Semantic Analysis and Attribute Clustering: Developing a Data Sharing Agreement Ontology. 11th U.S. Networked Knowledge Organization Systems (NKOS) Workshop. DC-2017. International Conference on Dublin Core and Metadata Applications, Washington, D.C.

**Grabus, S.** (2017). *Advancing rights management metadata best practices across open and closed data sharing communities*. Poster presented at the Research Data Alliance 10th Plenary Meeting. Montreal, Québec, Canada.

Greenberg, J., **Grabus, S.**, Hudson, F., Kraska, T., Madden, S., & Bastón, R. (2016). *The Northeast Big Data Hub: "Enabling Seamless Data Sharing in Industry and Academia" Workshop*. Philadelphia, PA: The Northeast Big Data Innovation Hub. <https://doi.org/10.17918/D8159V>

**Grabus, S.** (2017). *ShareDB: A Licensing Model and Ecosystem for Data Sharing*. Poster presented at the 2017 Joint PI Meeting of NSF BIGDATA and NSF Big Data Hubs & Spokes, Washington, D.C.

## PROFESSIONAL EXPERIENCE

**2021-Present** *Project Manager*; LEADING Fellowship Program, Drexel CCI, Philadelphia, PA

Design and maintain project website, develop and distribute recruitment materials for prospective applicants; establish communication infrastructure for the core project team, project mentors, advisory board, and fellows; meeting planning and coordination; serve as project liaison for all project participants; develop and streamline onboarding materials for fellows; organize and upload data science curriculum materials; social media coordination.

**2019-2020** *Project Manager*; LEADS-4-NDP Fellowship Program, Drexel CCI, Philadelphia, PA

Marketing; communication & meeting coordination for fellows, project mentors, & PIs; organization of applicant submissions; setting up Blackboard curriculum resources, preparing CPT paperwork for international fellows; facilitating travel, lodge, & meal accommodations; creating & maintaining a fellows blogsite; facilitating video conference check-ins with fellows; gathering fellow outputs.

**2017-Present** *Research Assistant*; Metadata Research Center, Drexel CCI, Philadelphia, PA

Primary areas of research include metadata, ontologies, taxonomies, controlled vocabularies, and other knowledge organization systems; information retrieval, automatic indexing, knowledge extraction, and subject representation. Lead research assistant on "Developing the Data Set of Nineteenth-Century Knowledge," a collaborative project between Drexel's Metadata Research Center (MRC) and Temple University Libraries. Automatically generated topical and location-based subject heading terms across approximately 20,000 19th-Century Encyclopedia Britannica entry TEI-XML headers to allow topical access and increase research potential for scholars.

Collaborative development (with MIT, Brown University of ShareDB data sharing platform; first-phase development of ontology for standardizing data sharing agreement needs for private and sensitive data types; development of DataSAR Dspace data sharing agreement repository; Manage Metadata Research Center website.

**2012** *Research/Editorial Internship*; for Dr. Henrik Eger, Upper Darby, PA

Edited second editions of two college course handbooks; researched, co-wrote, and edited academic article for the world's largest Jewish theatre website, [www.Jewish-Theatre.com](http://www.Jewish-Theatre.com); assisted in German-English correspondence translations.

**2010-2011** *Library Reference Assistant*; Stevenson University Library, Baltimore, MD

Developed new ideas for library maintenance and expansion; processed and shelved new materials; advertising; created innovative and informative displays; located and prepared interlibrary loan resources; assisted students with information access; organized student events; shelf-reading; scanning, data entry, and cataloging tasks.

# BOARD MEMBERSHIP

**2021-Present** *International Society for Knowledge Organization-Canada/United States (ISKO-C/US)*, Program Officer

# TECHNICAL SKILLS

*Computer Languages/Selected packages:* Python, Stanford NLP (Stanza), Pandas, Scikit-learn, SQL, XML, R, CSS, HTML/XHTML

*Keyword Extraction Algorithms:* RAKE, TF-IDF, TextRank, Maui, Kea++, Yake

*Software:* PyCharm, Anaconda, Oxygyn XML Editor, OpenRefine, DB Browser, HIVE (Helping Interdisciplinary Vocabulary Engineering), MultiTes Pro, PoolParty Semantic Suite, Tableau, Dspace, RStudio, Drupal, Oracle, Wordpress, GitHub, Umbraco, Dreamweaver, Microsoft Office, Apple software, Adobe Photoshop/GIMP

*Standards and other LIS Proficiencies:* Metadata standards (Dublin Core, MODS, Darwin Core, TEI), Library cataloging and classification standards (MARC, AACR2, RDA, DDC, LCSH), ProQuest research databases, Web of Science, JSTOR, ILLiad, Voyager

# GRANTS AND AWARDS

2020 LITA/Ex Libris Student Writing Award (Awarded \$1,000 plus paper publication in *Information Technology and Libraries* (LITA)).

2018 *LEADS-4-NDP Fellowship*; Drexel's College of Computing and Informatics (Awarded \$5,000 plus travel support)

2017-2018 *RDA/US Data Share Fellowship*; Research Data Alliance (Awarded \$5,000 plus travel support)

*Bettina H. Shears Endowed Scholarship*, awarded for academic excellence, 2016

# MEMBERSHIPS

Upsilon Pi Epsilon: The international Honor Society for the Computing and Information Disciplines

International Society for Knowledge Organization: Chapter for Canada and United States (ISKO-C/US)

Association for Information Science and Technology (ASIS&T)

Research Data Alliance (RDA): Metadata Interest Group