Sarah Huber

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Fostering Problem Solving, Creativity, and Learning During the Research Process.
Active Discovery Information Systems

PROFESSIONAL PROFILE

I am a strategic and creative leader with an interest in exploring how information can be organized and accessed through new and emerging systems of knowledge organization. This includes investigating how libraries can support the creation of non-traditional forms of scholarship: its creation, storage, and discovery. I bring to the table a robust background and expertise in teaching, visual literacy, and the design of a makerspace, its programming and management. My work bridges the gaps between information searching and creativity by applying principles of learning and active engagement with information that is diverse in content and format.

CORE COMPETENCIES

Informed Learning	Curriculum Design and Teaching	Multidisciplinary Collaboration
Learning Through the Search	Visual Literacy	Knowledge Organization
Informed Making	Makerspace Programming	Technology for Learning

EDUCATION

Master	*Library and Information Science* St. Catherine University	St. Paul, MN	**2014**
Associate of Applied Science	*Audio, Visual Digital Media* Minneapolis Community & Technical College	Minneapolis, MN	**2007**
Bachelor of Arts	*English* University of Minnesota	Minneapolis, MN	**2000**

ACADEMIC EXPERIENCE

ASSISTANT PROFESSOR OF LIBRARY SCIENCE	**11/2016 to 06/2022**
ASSOCIATE PROFESSOR OF LIBRARY SCIENCE & KNOWLEDGE LAB DIRECTOR	**07/2022-Present**
Purdue University	West Lafayette, MN	

Designed and direct the Libraries' makerspace, *The Knowledge Lab*, overseeing budget, library staff, and programming. The Lab is a low-stakes, rapid prototyping space where the Purdue community can use a variety of materials, equipment, and software to experiment with the exploration and presentation of their ideas. Students are encouraged to explore alternative forms of assignment delivery and scholarship. Design and teach visual literacy instruction to meet the needs of students' ever-increasing expectation to navigate and create visual information. Liaison across computer graphic technology and computer and information technology programs for faculty collaborations, research consultations, and teaching library resources and information literacy practices. Instruct credit-bearing courses on data management, research, and visual literacy.

Highlights

- Partnered with School of Communication to produce, *MakeYourStory* podcast, to teach students, specifically students in STEM, how to tell compelling stories about their innovations and ideas.
- Developed an online visual literacy framework and tool to teach both introductory navigation and creation of data visualizations.
- Collaborated across campus Cultural Centers to produce podcast, *Diversity and Making*, both in-person and virtual, through the lens of diversity, highlighting contributions of the Asian, LGBQT, Latino, and Native American populations.
- Applied multi-disciplinary approach, connecting visualization and computation center with the Libraries to develop a 3D model repository.
- Designed and direct a successful makerspace that partners across campus and hosts over 6,000 students a semester.

Classes Taught

- ILS 301: Data Foundations, Tools, and Applications
- ILS 595: Visual Media for the Workplace
- R1:199: Honors Research

- R1: 299: Honors Mentor
- ECET 380: Global Professional Issues in Engineering Technology
- ANTH 497: Senior Honors Seminar
- ILS 295: Foundations of the Data Mind; An interlocking Modules Approach to Data Management
- ILS 103: Introduction to Data Management
- Nuclear Engineering 480: Essential Communications Skills for Engineers

LIBRARIAN	**12/2007 to 11/2016**

Dunwoody College of Technology | Minneapolis, MN

Designed and implemented information literacy instruction throughout campus. Taught faculty workshops on basic photography, photoshop, and instructional video creation. Liaisoned to faculty integrating technology in the classroom across disciplines. Liaisoned to the engineering, architecture, and interior architecture departments, building resources specific to their programs.

Highlights
- Assisted in implementing engineering programs ABET, CIDA, and NAAB.
- Secured funding and built a virtual reality lab.
- Built a materials library to support engineering, interior architecture, and architecture programs.
- Supervised student workers within the library for two years, mentoring and delegating tasks.
- Part of the planning team organizing main library rebuild prior to approval and hand off.
- Created educational videos for Lean Manufacturing, Welding & Construction Safety for program instruction.

PROFESSIONAL EXPERIENCE

ART INSTRUCTOR	**05/2003 to 10/2008**

Walker Art Center | Minneapolis, MN

Contracted with Modern Art Museum to lead children's workshops focused on textile arts. Wrote lesson plans and led workshops involving stamps, drawing, printing on fabric, and other child focused makerspace activities.

VIDEO EDITOR	**02/2007 to 12/2007**

TN Marketing | Plymouth, MN

Edited video footage for marketing clients. Content revolved around information, education, and instruction related to client industries.

APPOINTMENTS

Courtesy Appointment: Computing & Graphics Technology	**Fall 2019-Present**

Purdue University | West Lafayette, IN

Courtesy appointment as an Assistant Professor of Computer Graphics to support faculty collaboration on research and instruction and to serve on graduate committees.

Courtesy Appointment: Engineering Technology	**Fall 2019-2023**

Purdue University | West Lafayette, IN

Courtesy appointment as an Assistant Professor of Engineering Technology to support faculty collaboration on research and instruction and to serve on graduate committees.

COURSES TAUGHT

ILS 301: Data Foundations, Tools, and Applications

Data are everywhere. Data permeates every aspect of our lives, from journalistic reporting to workplace projects to artificial intelligence applications. This course covers the basics of the data research lifecycle, including locating and managing datasets, along with applying different methods and tools a to craft compelling stories about data.

ILS 595: Visual Media for the Workplace

Students actively engage with information literacy practices to make informed decisions when choosing visual media to communicate their message. Students utilize design principles, accessibility standards, and ethical use of visual information, among other topics, to create impactful and effective visuals. This course prepares students to communicate with visuals for a workforce that communicates through diverse formats.

R1: 199: Honors Mentor

Offered Fall and Spring semesters. A Learning Community course aimed to fast-track students for success in undergraduate research. This course gives members of the Learning Community an overview of research methods and practical experience doing creative research. After completing this course, students are positioned to maximize their experience as part of an R1 research institution.

R1: 299: Honors Mentor

Offered Fall and Spring semesters to undergraduate students in their junior and senior year across a variety of programs. Students in this course mentor freshman and sophomores in the accompanying HONR R1: 199. Honors Mentor is a course for students to develop and refine leadership skills through a series of reflective activities and engagement in practical leadership experience.

ECET 380: Global Professional Issues in Engineering Technology

10% appointment Fall and Spring semesters. This course addresses professional ethics, legal issues, professional development, technology transfer, and corporate culture as they relate to engineering technology graduates and our global society. A focus is placed on developing research questions, citation, and reference skill development in their capstone project.

ANTH 497: Senior Honors Seminar

Led a collaboration between anthropology student and Purdue Libraries Archives and Special Collections to identify archive objects we 3D scanned and made available through both an Open Access Repository and an online exhibit.

ILS 295: Foundations of the Data Mind: An Interlocking Modules Approach to Data Management

Offered as part of three one-credit courses that combined to meet a set of core competencies in data science. The courses offered through three colleges (Philosophy, Purdue Libraries, and Electrical Engineering), covered principles of data management and organization, data analysis and visualization, and ethical and social implications of data science.

ILS 103: Introduction to Data Management

Offered Fall semester. Provides a foundation in the concepts of data organization, management, preservation, and publication. Students engage with the data management topics through readings, videos, discussion, lectures, guest speakers, and hand-on activities. They develop an ability to locate, access, transform, and evaluate data to answer every day and research questions.

Nuclear Engineering 480: Essential Communications Skills for Engineers

Database searching within nuclear engineering, advanced search strategies, evaluating information, searching government information, scientific and technical information, technical standards and patents, plagiarism, copyright, attribution and citation.

LICENSURE

MN SCHOOL LIBRARY MEDIA SPECIALIST | *St. Catherine University* | St. Paul, MN   **2016 to 2022**

GRANTS & AWARDS

Joanne J. Troutner Innovative Educators Program Award
Purdue University Libraries and School of Information Studies
Total award amount: $3,385
Date awarded: May 02, 2024

Joanne J. Troutner Innovative Educators Program Award
Purdue University Libraries and School of Information Studies
Total award amount: $2,600
Date awarded: May 02, 2023

Joanne J. Troutner Innovative Educators Program Award
Purdue University Libraries and School of Information Studies
Total award amount: $4,771
Date awarded: May 27, 2022

Joanne J. Troutner Innovative Educators Program Award
Purdue University Libraries and School of Information Studies
Total award amount: $2,015
Date awarded: March 24, 2021

International Travel Grant
PULSIS: Libraries Research & Scholarship Grant
Total award amount: $2,000
Data awarded: January 28, 2019

Foundations of the Data Mind: An Interlocking Modules Approach
Purdue: Integrative Data Science Initiative
Total award amount: $48,639
Date awarded: May 7, 2018/ End date of Funding = June 1, 2019

Crosby Fellowship Grant
Dunwoody College of Technology
Total award amount: $10,000
Date awarded: December 1, 2014 / End data of funding = December 1, 2016

PUBLICATIONS

Bochenek, A., Huber, S., & Varma Mudduluru, R. (2025). Libraries facilitating knowledge creation through podcasting: Exploring podcasts as a form of scholarship. *The Journal of Academic Librarianship*, *51*(3), 1–9.

Huber, S., Mayhook, Z., & Huang, W. (2024). Visual media assignments: Faculty vs. student experiences and expectations in engineering and business. *The Journal of Academic Librarianship*, 50(6). https://doi.org/10.1016/j.acalib.2024.102971

Huber, S., Sari, P., & Meher, R. (2021). Diversity and making: A living history quilt. *Journal of Learning Spaces*, 10(3). Retrieved from http://libjournal.uncg.edu/jls/article/view/2125

Bosman, L., Bartholomew, S., Huber, S., & Amiaya, A. (2021). Using adaptive comparative judgment to promote the entrepreneurial mindset and visual literacy in the engineering technology classroom. *Entrepreneurship Education*. https://rdcu.be/czEIi

Huber, S., & ᵍPuliyadi Ravi, S. (2021). A visual design framework and assessment to inform instruction. In J. Lee, S. M. Christensen, S. Beene, X. Chen, and W. Huang (Eds.), Visual literacy in the virtual realm: The book of selected readings 2021 (pp. 39-52). International Visual Literacy Association. doi.org/10.52917/ivlatbsr.2021.015

Huber, S. (March 2021). Active discovery information systems. *Journal of Academic Librarianship*, 47(2). doi.org/10.1016/j.acalib.2020.102283

Huber, S. Bosman, L. & Bartholomew, S. (January 2021). Library instruction and adaptive comparative judgment to foster visual literacy skills. *Portal: Libraries and the Academy, 21*(1). doi:10.1353/pla.2021.0001

Huber, S, & Sumner, A. (2021) Photogrammetry and texture Baking: Creating lightweight 3D objects for any VR headset. In E. Kroski (Ed.) *32 virtual, augmented, and mixed reality programs for libraries* (pp. 62-69). ALA Editions. https://docs.lib.purdue.edu/lib_fsdocs/252/

Huber, S., Edmondson, A.P. & Meher, R.I. (2020). Part VIII craft projects: Carving cute critters (pp. 235-239). In E. Kroski (Ed.) *53 ready-to-use kawaii craft projects*. ALA Editions. https://docs.lib.purdue.edu/lib_fsdocs/251/

Hannah, M., Huber, S., & Matei, S. A. (2019). Collecting virtual and augmented reality in the twenty-first century library. *Collection Management, 44*(2-4), 277-295. doi:10.1080/01462679.2019.1587673

Huber, S. (2018). The dynamic library. *Collection Management, 43*(3), 223-225. doi:10.1080/01462679.2018.1482246

Howard, H., Huber, S., Moore, E., & Carter, L. (2018). Academic libraries on social media: Finding the students and the information they want. *Information Libraries & Technology*. Paper 194. https://doi.org/10.6017/ital.v37i1.10160

Phillips, M., & Huber, S. (2017, Summer). Standards resources for engineering and technology. *Issues in Science & Technology Librarianship*, *87*. DOI:10.5062/F4B27SJ7

PRESENTATIONS

Bochenek, A. & Huber, S. (2024, March 26) Librarians Facilitating Creativity and Knowledge Among Students Through podcasting. LILAC: The Information Literacy Conference. Leeds, England.

Huber, S. & Mayhook, Z. (2023, April 19-21). *Getting Visual: Assessing the Need for Visual Literacy Instruction Within Engineering and Business Courses*. LILAC: The Information Literacy Conference 2023, Cambridge, United Kingdom.

Bochenek, A. & Huber, S. (2022, July 31-August 2). *Make Your Story: Creating Community and Celebrating Makers through the Narrative Podcast*. Special Libraries Association Annual Conference 2022, Charlotte, NC, United States.

Bochenek, A. & Huber, S. (2022, June 1-3). *Make Your Story: Creating Community and Celebrating Makers through the Narrative Podcast*. 2022 ACRL New England/NELIG Joint Annual Conference, Virtual.

Huber, S. & Sari, P.K. (2021, July 15). *University Libraries and Cultural Center Maker Collaboration: Fostering Diverse Makers and Their Making*. 4th Annual Makerspaces for Innovation and Research (MIRA) Conference, Virtual.

Huber, S. & Sari, P.K. (2021, June 1-4). *University Libraries and Cultural Center Maker Collaboration: Fostering Diverse Makers and Their Making*. Polytechnic Summit 2021, Virtual, International.

Huber, S. (2020, September 24-27). *A Visual Design Framework with Adaptive Comparative Judgement (ACJ) to Assess Visual Design Skills.* 53rd Annual Conference of the International Visual Literacy Association (IVLA), Virtual, International

Huber, S. (2020, March 2). *Data Visualization Essentials: Choosing the Right Graph for Your Data*. Women in Data Science (WIDS) 2020, West Lafayette, IN, United States.

Huber, S. (2019 November 7). Poster*: PULSIS: Mobile Making*. 11th Annual Purdue GIS Day, West Lafayette, IN, United States.

Huber, S. (2019 September 30). *Engage Students and Enhance Data Management*. Midwest Data Librarian Symposium (MDLS), 2019, Chicago, IL, United States.

Huber, S. (2019 July 14-19). Poster: *Adaptive Comparative Judgement (ACJ) to Support Visual and Information Literacy for Engineering Technology Students*. Gordon Research Conference: 2019 Visualization in Science and Education, South Hadley, MA, United States.

Huber, S. (2019 April 6). *Visual Literacy & Zine Making: Staying Wild,* CouterPlay 2019!. Aarhus, Denmark.

Huber, S. (2019 May 10). *Integration of Foundational Data Management Course into STEM*. Indiana Online Users Group (IOUG) Spring 2019 Conference, Indianapolis, IN, United States.

Huber, S. (2018 March 14). *Slaying the Social Media Dragon: A Quest to Connect with Students*. 2018 Libtech: Library Technology Conference, Saint Paul, MN, United States.

PROFESSIONAL ACTIVITIES

Faculty Senate | Committee Member |Purdue University **10/2024 to 05/2027**
Learning Council |Committee Member |Purdue Libraries **09/2024 to Present**

Committee Member | *International Presence* | International Visual Literacy Association **08/2020 to Present**
Convener | *Image Resources Group* | American College of Research Libraries **02/2020 to Present**
Chair | *Visual Arts & Design Committee* | Purdue University **10/2018 to 05/2022**
Committee Member | *Entrepreneurship Implementation Task Force* | Purdue Libraries **03/2018 to 03/2019**
Committee Member | *Digital Scholarship Task Force* | Purdue Libraries **01/2018 to 01/2019**
Chair | *Seminar Committee* | Purdue Libraries **08/2017 to 08/2020**

STUDENT ORGANIZATION FACULTY ADVISOR

Fashion Retail Organization	**02/2023 to Present**
Sewing & Design Club	**02/2023 to Present**
Clothing for Cancer	**02/2023 to Present**
Aurum Arts & Culture Magazine	**08/20222 to 05/2023**

MEMBERSHIPS & ORGANIZATIONS

Association of College and Research Libraries |Convener |Image Resources	**05/2017 to Present**
International Visual Literacy Association	**10/2021 to Present**
American Society of Engineering Educators	Engineering Libraries Division	**05/2017 to 05/2023**
American technical Education Association	**12/2015 to 11/2016**
Association of Architecture School Librarians	**05/2013 to 11/2016**
Digital Public Library of America Community Trainer	**01/2014 to 01/2015**
MLA's Institute for Leadership Excellence (MILE)	**05/2013 to 12/2015**

PROFESSIONAL   DEVELOPMENT

Teaching for Tomorrow Faculty Fellowship Program	Purdue University	**09/2020 to 09/2021**
Data Science & Visualization Institute for Librarians	North Carolina State University	**06/2018**