

## **BRODERICK D. J. SCHIPP**

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### **EDUCATION**

**Purdue University Global, School of Behavioral Sciences** — West Lafayette, IN

Master of Science in Industrial-Organizational Psychology, Research Thesis Track

August 2023 – March 2026 (Commencement: May 2026) | GPA: 4.00

- Thesis: *Thematic investigation of employee engagement experiences: Predictions for effective departmental performance management* (October 2025 – March 2026)
- Relevant Coursework: Applied Statistics for Psychology; Advanced Research Methods; Organizational Management and Behavior; Organizational Leadership — Management, Training, and Evaluation; Human Resources Management

**Purdue University, College of Health and Human Sciences** — West Lafayette, IN

Bachelor of Science in Psychological Sciences

Minor in Women, Gender, and Sexuality Studies

August 2018 – May 2022 | GPA: 3.29 (Major: 3.50; Minor: 3.68)

- Semester Honors, Spring 2022
- Member, Iota Iota Iota (Triota) Honor Society, Epsilon Kappa Chapter (April 2022)
- Member, Purdue Association of Undergraduate Students in Industrial Psychology (PAUSIP) — President and Founder (November 2021 – May 2022)
- Relevant Coursework: Selection and Performance Appraisal; Job Design; Human Factors in Engineering; Problem Solving and Object-Oriented Programming; Programming with Multimedia Objects

### **RESEARCH EXPERIENCE**

**Conflict Collaboratory, Undergraduate Research Assistant** — West Lafayette, IN

Purdue University, Department of Psychological Sciences

Advisor: Dr. Franki Kung

May 2021 – May 2022

- Coded and audited 500+ journal articles involving multicultural engineering teams for a meta-analysis of essentialist thinking and intergroup bias across 7,000+ empirical articles
- Restructured dataset of 14,000+ entries to identify and remove duplicate articles from abnormal data
- Conducted in-person lab studies in compliance with evolving COVID-19 research protocols
- Reviewed literature on perceptions of non-binary leadership for an individual research project
- Located and cited psychometric instruments measuring competence in conflict resolution as a precursor to a scale development study
- Presented contemporary research articles in weekly lab sessions for group discussion
- Assisted in organizing and promoting events for the Diversity, Equity, and Inclusion Science Consortium

**Graduate Research Training: Job Design (PSY 55600)** — West Lafayette, IN

Purdue University, School of Industrial Engineering

Advisor: Dr. Vincent G. Duffy

January 2022 – May 2022

- Collaborated on a systematic literature review examining cross-cultural design, emotional design, and sensation/perception in human factors and ergonomics
- Received training on bibliometric analysis software including VOSViewer, CiteSpace, and MaxQDA

**PROFESSIONAL EXPERIENCE**

**Purdue University, Libraries and School of Information Studies** — West Lafayette, IN

*Full-time, 3 years cumulative*

**Digitization Projects Assistant** July 2025 – Present

- Built and deployed a HathiTrust submission package automator — an end-to-end Python pipeline handling OCR processing, metadata generation, package assembly, and validation for digital preservation compliance; shipped as a production Windows application
- Developed a Python tool for calculating visual padding on digitized materials using geometric means, accounting for variable page geometry in bound objects where spine position shifts width asymmetrically

- Co-authored the PDF accessibility section of Purdue Libraries' Digital Accessibility research guide ([guides.lib.purdue.edu/DigitalAccessibility/PDF](https://guides.lib.purdue.edu/DigitalAccessibility/PDF))
- Trained colleagues on PDF remediation best practices and accessible table structure for screen readers
- Designed a cross-unit welcome program (LCSSAC) for new library employees to build intercommunity connections across organizational sub-units
- Optimized staff wellness survey for psychometric soundness based on prior organizational data and survey instruments
- Designated Training Individual for safety protocols in the Digital Projects unit

**Library Assistant (Overnight) May 2024 – July 2025**

- Built an automated batch processing pipeline (Python, OCR, Docker) for preprocessing scholarly PDF documents for WCAG 2.1 and PDF/UA compliance, achieving remediation-readiness on 1,200+ documents from a collection of 30,000+
- Recorded, edited, and subtitled staff tutorial videos for ePubs PDF accessibility remediation workflows
- Presented a financial report on usage of the on-demand document delivery service Article Galaxy using Excel Power Query and shell scripting
- Consolidated swipe-in traffic data for the Knowledge Lab into a Tableau dashboard to showcase facility usage trends
- Managed 3D printing request pipeline through LibApps and LulzBot Cura
- Claimed and resolved 60+ overnight digital reference (Dig-Ref) questions

**Libraries Facilities Attendant (Overnight) March 2023 – May 2024**

- Gathered and presented insights on overnight facility usage at the Wilmeth Active Learning Center (WALC), consolidating over two years of student headcount data (59,518 students counted)
- Modeled price rates and daily gross totals for New Haven book carts, identifying \$2,600+ in cost savings
- Created visual data dashboards in Excel to inform operational and business decisions
- Initiated PDF remediation workflow for open-access scholarly articles in Adobe Acrobat

**Town & Gown Bistro** — West Lafayette, IN

**Lead Bartender** June 2021 – November 2022

## PRESENTATIONS AND POSTERS

**Schipp, B. D. J.** (2025). *Putting the 'Digital' in Digital Accessibility: Creating a Large-Scale Automated PDF Remediation Pipeline*. Poster presented at One Book Higher, Purdue University Libraries and School of Information Studies, West Lafayette, IN. [**Most Innovative Poster Award**]

**Schipp, B. D. J.** & Crowe, K. (2024). *After-Hours Analytics: Understanding Overnight WALC Utilization Patterns*. Poster presented at One Book Higher, Purdue University Libraries and School of Information Studies, West Lafayette, IN.

**Schipp, B. D. J.**, Myers, H. P., & Kung, F. (2022). *A Literature Review of Conflict Management Competency Measures*. Poster presented at the 20th Annual Psychology Undergraduate Research Conference, Purdue University, West Lafayette, IN.

## PUBLICATIONS AND GUIDES

**Schipp, B. D. J.** (co-author). (2025). PDF Accessibility. In *Digital Accessibility Skills* [Research guide]. Purdue University Libraries and School of Information Studies. <https://guides.lib.purdue.edu/DigitalAccessibility/PDF>

## TECHNICAL PROJECTS

**Batch PDF Accessibility Tool** | [github.com/TenthEdict/Batch\\_PDF\\_Accessibility\\_Tool](https://github.com/TenthEdict/Batch_PDF_Accessibility_Tool)

Python-based batch processing pipeline for preparing scholarly PDFs for accessibility remediation. Features automated OCR (Tesseract/PyMuPDF), orphan tag stripping, PDF/UA-1 metadata compliance, parallel processing, and Docker containerization. Used in production at Purdue Libraries for WCAG 2.1 compliance work.

**HathiTrust Package Automation** | Purdue University (Internal)

End-to-end pipeline for creating HathiTrust-compliant digital preservation submission packages from TIFF images. Includes OCR processing, YAML metadata generation, checksum validation, and package assembly. Shipped as a standalone Windows application with parallel processing support.

**Digitization Visual Padding Calculator** | Purdue University (Internal)

Python application for calculating visual padding on digitized materials using geometric means of physical object measurements. Handles both loose and bound material, with bound material calculations using the average of shortest and longest width to account for spine-position page geometry shifts.

## SERVICE AND COMMITTEES

### **Libraries Campus Support Staff Advisory Committee (LCSSAC) 2025**

– Present

Purdue University Libraries and School of Information Studies

- Designing a cross-unit welcome program for new employees to foster intercommunity connections across library sub-units
- Optimized staff wellness survey for psychometric soundness using prior organizational data

### **Accessibility Working Group 2025 – Present**

Purdue University Libraries and School of Information Studies

- Co-authored the PDF accessibility section of the Digital Accessibility research guide
- Presented to colleagues on digital accessibility best practices for PDF remediation
- Presented on accessible table structure for correct screen reader interpretation

### **Safety and Ergonomics Committee 2025 – Present**

Purdue University Libraries and School of Information Studies

- Curated a physical binder of safety information for unit and building safety/evacuation plans
- Designated Training Individual for safety in the Digital Projects unit

## **HONORS AND AWARDS**

### **Joseph M. Dagnese Memorial Award for Excellence in Service to the Libraries**

Purdue University Libraries and School of Information Studies | April 2025

### **Most Innovative Poster Award, One Book Higher**

Purdue University Libraries and School of Information Studies | April 2025

### **Associate Deans' Choice Award, One Book Higher**

Purdue University Libraries and School of Information Studies | December 2023

## **CERTIFICATIONS**

**Social and Behavioral Responsible Conduct of Research** — CITI Program, February 2026

**Human Research I — Basic Course** — CITI Program, October 2025

**DT Digitization Certification Level 201: Operator Training** — Digital Transitions, September 2025

**DT Digitization Certification Level 101: Intro to Modern Digitization**  
— Digital Transitions, September 2025

**Scopus Database Certification Program for Librarians** — Elsevier, October 2024

**Cultivating Belonging: Library Accessibility Essentials** — Big Ten Academic Alliance, September 2024

## **LEADERSHIP**

**Purdue Association of Undergraduate Students in Industrial Psychology (PAUSIP)**

Founder and President | November 2021 – May 2022

- Founded student organization dedicated to I-O Psychology at Purdue University
- Wrote constitution and designed marketing materials for recruitment
- Managed five branches of the organization, each with dedicated committee members

## **Delta Mu Kappa**

Secretary | December 2018 – December 2019

- Conducted administrative tasks for general organizational workflow
- Liaison between executive board and general membership

## **TECHNICAL SKILLS**

**Data & Analytics:** Excel (Power Query, dashboards), Tableau, RStudio

**Document & Image Processing:** Tesseract OCR, PyMuPDF, pikepdf, OpenCV, pdf2image, Adobe Acrobat Pro

**DevOps & Tools:** Docker, Git, VS Code

**Research & Bibliometric Software:** VOSViewer, CiteSpace, MaxQDA, Zotero

**Library Systems:** Alma, LibApps/LibAnswers

**Standards & Compliance:** WCAG 2.1, PDF/UA-1, ADA Title II, HathiTrust submission specifications

## **LANGUAGES**

English (Native) | American Sign Language (ASL) (Intermediate) | Japanese (Intermediate) | Spanish (Intermediate) | French (Intermediate) | German (Beginner)