BRODERICK D. J. SCHIPP

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SUMMARY

I/O Psychology researcher and accessibility engineer with 3 years of experience building automation tools for digital preservation and scholarly publishing at Purdue University Libraries. Combines organizational science training (4.0 GPA, MS) with hands-on software development (Python, OCR, Docker) to solve complex institutional workflow problems. Seeking roles at the intersection of people systems and technical infrastructure.

EDUCATION

M.S. Industrial-Organizational Psychology, Research Thesis Track Aug 2023 – Mar 2026

Purdue University Global, School of Behavioral Sciences | GPA: 4.00

- Thesis: *Thematic investigation of employee engagement experiences: Predictions for effective departmental performance management*

B.S. Psychological Sciences Aug 2018 – May 2022

Purdue University, College of Health and Human Sciences | Minor: Women, Gender, and Sexuality Studies

PROFESSIONAL EXPERIENCE

Digitization Projects Assistant Jul 2025 – Present

Purdue University, Libraries and School of Information Studies

- Built and deployed a HathiTrust submission package automator — end-to-end Python pipeline for OCR, metadata generation, package assembly, and validation; shipped as 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

- Co-authored PDF accessibility section of Purdue's Digital Accessibility research guide; trained colleagues on remediation best practices and accessible table structure

- Designed cross-unit welcome program (LCSSAC) for new employees; optimized staff wellness survey for psychometric soundness

Library Assistant (Overnight) May 2024 – Jul 2025

Purdue University, Libraries and School of Information Studies

- Built automated batch processing pipeline (Python, OCR, Docker) for WCAG 2.1/PDF/UA compliance, achieving remediation-readiness on 1,200+ documents from a collection of 30,000+

- Consolidated facility usage data into Tableau dashboard; presented financial analysis of document delivery service using Excel Power Query and shell scripting

- Gathered and presented overnight facility usage insights at WALC, consolidating 59,518 student headcounts over two years; awarded Associate Deans' Choice for data presentation

RESEARCH EXPERIENCE

Undergraduate Research Assistant May 2021 – May 2022

Conflict Collaboratory, Purdue University | Advisor: Dr. Franki Kung

- Coded 500+ journal articles for a meta-analysis of essentialist thinking and intergroup bias; restructured dataset of 14,000+ entries

- Located psychometric instruments for conflict resolution competence as precursor to scale development study

TECHNICAL PROJECTS

Batch PDF Accessibility Tool | github.com/TenthEdict/Batch_PDF_Accessibility_Tool

- Production pipeline for scholarly PDF preprocessing: automated OCR, orphan tag stripping, PDF/UA-1 compliance, parallel processing, Docker containerization

HathiTrust Package Automation | Purdue University (Internal)

- End-to-end digital preservation pipeline: TIFF → OCR → YAML metadata → checksum validation → HathiTrust-compliant packages

HONORS, AWARDS & CERTIFICATIONS

Awards: Joseph M. Dagnese Memorial Award for Excellence in Service (2025) • Most Innovative Poster Award (2025) • Associate Deans' Choice Award (2023)

Certifications: CITI Human Research & Responsible Conduct of Research • Scopus Database Certification (Elsevier) • DT Digitization Levels 101 & 201 • Library Accessibility Essentials (Big Ten)