HARPER W SCHWAB

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EDUCATION

University of Chicago   Chicago, IL
B.S. Data Science, B.A. Human Rights with honors   *June 2025*
Awards and Honors: Pozen Center Human Rights Leader 2024-25, Excellence in Data Science 2024-25

WORK EXPERIENCE

The World Bank, *Data and Analytics Global Solutions Group, Washington, DC*   June 2025 - Present
· Conducting interdisciplinary research integrating AI/ML-driven analysis of female workforce participation to identify patterns of discrimination and inform safeguards in global economic policy.
· Defining the emerging field of human rights economics by integrating legal frameworks with quantitative economic methods to develop actionable policy recommendations.

Data Science Institute, *Technical Project Manager & Mentor, Chicago, IL*   September 2024 - June 2025
· Led technical project management for two NGO/non-profit client teams, directing deliverables and mentoring 8+ students in ML/AI/LLM integration while implementing reproducible development environments using Docker and Make to ensure consistent testing and deployment across diverse teams.

Pozen Center For Human Rights, *Research Assistant, Chicago, IL*   October 2024 - June 2025
· Contributed legal analysis for a report by the UN Special Rapporteur on Extrajudicial, Summary or Arbitrary Executions, with findings on four countries included in recommendations to the General Assembly.
· Analyzed laws and institutions to assess state protections after unlawful killings in Ukraine, India, England, and Kenya, providing insights into governance failures and international accountability mechanisms.

Results for America, *Data Science and Research Intern, Washington, DC*   June 2024 - August 2024
· Built a Python pipeline of 90,000+ observations and 200+ visualizations to analyze rural-urban disparities in U.S. government funding, providing data-driven insights to support equitable federal policy recommendations.

LEADERSHIP POSITIONS

UChicago Model United Nations (MUN), *President*   January 2022 - June 2025
· Coordinated logistics for 60+ participants in twice-weekly meetings while managing 10+ weekly coaching sessions and $82,000+ annual budget.
· Organized quarterly travel for groups of 10+ students and managed relationships with external conference organizations, securing budget approvals and operational flexibility.

PROJECTS

Inclusive Development International (IDI), *Chicago, IL*   September 2024 - June 2025
· Developed data pipeline with 12 custom web scrapers generating 1000+ validated human rights records while managing a 6-person team using LLMs for unstructured data; delivered technical presentations with policy implications to practitioners.

PUBLICATIONS & RESEARCH PAPERS

A. Kale, D. Liu, M. G. Ayala, H. Schwab and A. McNutt, "What Can Interactive Visualization Do for Participatory Budgeting in Chicago?," in IEEE Transactions on Visualization and Computer Graphics, vol. 31, no. 1, pp. 415-425, Jan. 2025, doi: 10.1109/TVCG.2024.3456343.

"The Right to Be Forgotten in the Age of Artificial Intelligence" (Undergraduate Thesis, 2025) Analyzed Meta's implementation challenges across EU/US regulatory frameworks, examining how fragmented legal structures create exploitable gaps in AI governance and data collection practices.

"Moderation in Transition: Policy Implementation in Twitter/X's Content Moderation Systems" (30-page research paper) Analyzed how organizational restructuring and "free speech" policies increased harmful content through decentralized moderation.

TECHNICAL SKILLS

Programming: Python, R, SQL, Docker, Git; **AI/ML**: machine learning (scikit-learn, tensorflow), LLM integration (ChatGPT, Claude, Gemini), statistical modeling (pandas); **Visualization**: D3.js, matplotlib, ggplot2; **Project Management**: GSuite, stakeholder relations, budget management, event coordination, conference planning

References available upon request