

HAYDEN A. ARNOLD

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Education

Master of Science in Computer Science, Machine Learning Specialization <i>Georgia Institute of Technology</i>	December 2027 <i>Atlanta, Georgia</i>
Master of Science in Computational Social Science <i>Korea Advanced Institute of Science and Technology</i>	June 2026 <i>Daejeon, South Korea</i>
Bachelor of Science in Computer Science <i>University of Arizona</i>	May 2024 <i>Tucson, Arizona</i>
<ul style="list-style-type: none">Cumulative GPA: 3.83, <i>magna cum laude</i> distinction	
Honors Bachelor of Arts in Political Science, Foreign Affairs Emphasis <i>University of Arizona</i>	May 2024 <i>Tucson, Arizona</i>
<ul style="list-style-type: none">Minors in Korean and Spanish LanguageCumulative GPA: 3.83, <i>magna cum laude</i> distinction	

Select Publications

Arnold, H., Kim, S., & Kim, T. (2026). How Does Toxicity Emerge in Political Livestreams? Large-Scale Evidence from Twitch. Under review at *Political Communication*.

Yu, X., Arnold, H., Su, B., & Blanco, E. (2025). Measuring and Forecasting Conversation Incivility: the Role of Prosocial and Antisocial Behaviors. In *Proceedings of the 19th AAI Conference on Web and Social Media (ICWSM)*.

Work Experience

Prompt Engineer <i>DataAnnotation.tech</i>	03/2024 – Present <i>Remote</i>
<ul style="list-style-type: none">Trained LLMs through programming-focused annotation and comparative model evaluation across 300+ promptsEngineered adversarial prompts to stress-test model failure modes, contributing to safety and quality improvements on frontier models including Gemini 3.0Delivered structured feedback identifying edge cases in code generation and reasoning tasks	
Data Analyst Intern <i>Pima County Democratic Party</i>	01/2024 – 05/2024 <i>Tucson, Arizona</i>
<ul style="list-style-type: none">Designed and implemented quantitative data collection pipelines to track trends in 10+ voter issues across 266 precinctsApplied machine learning models to predict election outcomes, achieving 80% accuracy against actual resultsCommunicated findings to stakeholders on policies and candidates during internal and public-facing presentations	
Senior Undergraduate Teaching Assistant <i>University of Arizona Department of Computer Science</i>	01/2023 – 05/2024 <i>Tucson, Arizona</i>
<ul style="list-style-type: none">Managed a team of 10+ TAs as primary liaison between professor and course staff for a class of 500+ studentsDrove structural and content improvements to course materials, resulting in improved student feedback scoresCoordinated top-down logistics to ensure consistent course delivery across all sections	
Undergraduate Teaching Assistant <i>University of Arizona Department of Computer Science</i>	08/2021 – 12/2022 <i>Tucson, Arizona</i>
<ul style="list-style-type: none">Led groups of 20+ students per semester in Python-heavy coursework, holding office hours and grading assignmentsHeld supplemental instruction sessions of 100+ students to prepare for exam content	

Projects

(2025) Law School Admissions Calculator — GitHub Link, Website Link
Predicts U.S. law school admissions results from historical data using Python, NumPy, Pandas, Scikit-learn, deployed in Vercel using Flask and Render for backend

Skills

Skills: R, Python (NumPy, Pandas, Scikit-learn, TensorFlow Keras, PyTorch, Matplotlib, Seaborn), Java (JavaFX, Lucene), C, SQL, JavaScript, HTML/CSS (Bootstrap), Machine Learning, Natural Language Processing (NLP), Deep Learning, Data Modeling, Data Science, Network Analysis, Statistics, Data Mining, Data Structures

Spoken Languages: English (native), Korean (fluent; TOPIK Level 5), Spanish (advanced; Seal of Biliteracy)