

Naomi Harkins

Quality Assurance Analyst | Data Validation & Technical Troubleshooting | Documented 25 Cross-Platform Gaps | Pursuing Accessibility Quality Engineering

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Profile

Recent Astronomy/Astrophysics graduate who enjoys figuring out why a result does not look right and tracing the issue back to its source. I have hands-on experience using Python, SQL, UNIX, Excel, and Tableau to check data, investigate unexpected findings, and explain what needs to happen next. I am curious, quick to learn, and comfortable working with others. I am especially interested in accessibility QA because small software problems can make a major difference in whether someone can use a product independently.

Core Skills

Quality Assurance: Data validation, consistency audits, anomaly investigation, source verification, issue prioritization, root-cause research, QA reporting

Analysis & Validation: Data cleaning, A/B testing, hypothesis testing, dashboard validation, visual usability review, reproducible workflows

Technical: Python, SQL, UNIX/command line, Jupyter Notebook, Excel, Tableau, SDSS CasJobs, IRAF

Communication: Technical reporting, data storytelling, cross-functional collaboration; bilingual English and Spanish

Selected QA & Technical Projects

Scientific Visualization Quality Review | Astronomy Data Visualization 2024

- Assessed 6 scientific figures for chart type, dataset structure, labeling, color contrast, legibility, information density, and visual hierarchy.
- Documented overplotting, low-contrast markers, oversized symbols, crowded legends, and unclear axes, then recommended targeted redesigns.

SDSS Data Quality & Survey Completeness | Python, SQL, Jupyter 2024

- Queried and analyzed 164,072 galaxy records, calculated 85.918% spectroscopic completeness, and investigated variation by magnitude, color, and surface brightness.
- Built a separate 62,879-record sample, converted sky coordinates into 3D Cartesian positions, and documented unexpected outputs for review.

A/B Testing Decision Analysis | Excel, Statistics 2026

- Compared two experiments and separated meaningful results from noise: H&M's email test was statistically significant ($p=0.047$), while Warby Parker's landing-page result was not ($p=0.149$).

Experience

The Global Career Accelerator | Data Analytics Trainee | Remote May 2026 - Present

- Developed Excel analyses and Tableau dashboards, checking calculations, filters, and source-data totals before presenting results.
- Translated visual and statistical findings into concise recommendations across energy, web, music, transit, and service datasets.

AC Creative Collective | QA/Research Analyst Intern Sep 2025 - Nov 2025

- Assessed business information across 7 public platforms and documented 25 missing, inaccurate, or broken fields in a structured quality audit.
- Produced benchmark reports on profile completeness, search visibility, and reputation, then prioritized corrections for the highest-impact issues.

Indiana University Department of Astronomy | Undergraduate Research Assistant Sep 2024 - Sep 2025

- Prepared and quality-checked SDSS optical spectra in IRAF, producing analysis-ready data for metallicity-calibration research.
- Investigated unusual oxygen-abundance measurements and documented possible error sources, limitations, and unresolved questions for faculty review.
- Independently reviewed scientific literature and communicated methods and findings during research discussions.

Education

Indiana University Bloomington | B.S. Astronomy/Astrophysics, Minor in Mathematics May 2026

Relevant Coursework: Computational Astrophysics, Observational Techniques, Linear Algebra, Quantum Mechanics