

Heeyoun Shin

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Profile

Healthcare Data Analyst with 3+ years of experience transforming behavioral health, clinical, and operational data into actionable insights that improve reporting, quality, and program performance. Skilled in **SQL, Python, Stata, and R**, with hands-on experience developing automated data workflows, **Power BI** dashboards, KPI frameworks, and statistical analyses, including causal inference approaches. Strong track record of collaborating with clinical, operational, and leadership teams to streamline reporting, enhance data quality, and support data-informed decision-making in **HIPAA**-aligned environments.

Experience

QI Evaluator (Analytics / Data Science), ReDiscover – Lee’s Summit, MO Dec 2025–Present

- **Dashboard & Reporting Automation:** Built and automated SQL-based reporting workflows and Power BI dashboards across 6 behavioral health programs, replacing manual reporting and improving access to self-service operational and clinical performance data.
- **Clinical & Compliance Evaluation:** Assessed screening, follow-up, outcome, and compliance measures to identify adherence gaps, monitor documentation and assessment requirements, and inform quality improvement efforts.
- **KPI Design & Standardization:** Standardized KPI definitions and reporting logic across multiple programs, strengthening consistency, interpretability, and trust in operational and clinical performance metrics.
- **Source Data Management:** Built and maintained SQL pipelines from CareLogic and related operational systems, applying data quality checks and PHI-minimizing reporting practices to produce reliable datasets for leadership reporting and decision-making.

Quantitative Research Analyst, University of Kansas – Lawrence, KS Aug 2019–Dec 2025

- **Large-Scale Data Management:** Built reproducible pipelines in Python, R, and Stata to clean, link, and analyze large-scale national survey datasets and Social Security Administration (SSA)-linked earnings records, including Add Health, NCHAT, and HRS.
- **Longitudinal Outcome Analysis:** Analyzed behavioral, socioeconomic, and health-related outcomes over time using regression, survival analysis, and panel methods to identify trends, risk factors, and key drivers of variation.
- **Causal Analysis:** Estimated treatment and policy effects using Difference-in-Differences, fixed-effects models, and IPTW, with documented assumptions, balance checks, and robustness analyses.
- **Research & Stakeholder Communication:** Presented findings at national conferences, contributed to publication-ready analyses, and translated complex statistical results for academic, policy, and non-technical audiences.

Program Evaluation & Data Quality Analyst, Korea Employment Information Service – South Korea Aug 2017–Jul 2019

- **Administrative Data Integration & Performance Reporting:** Built SQL/ETL pipelines linking administrative and survey data for national employment insurance evaluations, and produced recurring performance reports in Excel for government stakeholders by standardizing metric definitions and improving reporting consistency.
- **Quasi-Experimental Evaluation & Policy Translation:** Conducted program evaluations in Python, Stata, and R using Difference-in-Differences, propensity score methods, and event-history models, translating findings into policy recommendations, technical reports, and decision-support materials for public-sector stakeholders.

Financial Analyst, Kiwoom Securities Co. – South Korea Jan 2017–Aug 2017

- **Automated Reporting & Visualization:** Automated daily sector reporting workflows using SQL and VBA, and supported data visualization for internal stakeholders to improve the efficiency and consistency of market reporting.
- **Forecasting & Sector Analysis:** Conducted quantitative analysis of healthcare and pharmaceutical sectors using Bloomberg, FRED, and other market data sources, supporting forecasting, recurring research outputs, and

investment decision-making.

Education

University of Kansas Medical Center, M.S. in Applied Statistics, Analytics, & Data Science	2024–2025
University of Kansas, Ph.D. in Sociology, Expected May 2026	2019–2026
Yonsei University, M.A. in Sociology	2014–2016
Kookmin University, B.A. in Sociology	2010–2014

Skills

- **Programming & Tools:** SQL (CTEs, window functions, joins, query optimization; Oracle, SQL Server, Snowflake), Python (pandas, statsmodels, scikit-learn), R, Stata, SAS, Excel (Power Query, PivotTables, VBA), Power BI, Tableau, PowerPoint.
- **Healthcare & Operational Analytics:** CareLogic / EMR data, KPI development, clinical and operational reporting, no-show analysis, follow-up tracking, utilization analysis, screening and outcome monitoring, compliance tracking, quality improvement analytics.
- **Statistical & Causal Methods:** Linear and logistic regression, generalized linear models, survival analysis, fixed-effects and mixed-effects models, hypothesis testing, confidence intervals, effect size estimation, Difference-in-Differences, propensity score methods (PSM/IPTW), interrupted time series, panel data methods, robustness and sensitivity checks.
- **Data Engineering, Quality & Compliance:** ETL pipeline development, record linkage, deduplication, outlier detection, longitudinal and administrative data, PHI de-identification, HIPAA-aligned workflows, 42 CFR Part 2, CITI Human Subjects / IRB.