

Yejin Hwang

+1 361-800-2613 | yejincc99@gmail.com | [linkedin.com/in/yejin-data](https://www.linkedin.com/in/yejin-data) | github.com/Yejin-Hwang

EDUCATION

Texas A&M University—Corpus Christi

Master of Data Science; GPA: 4.0

Corpus Christi, TX

Expected Dec 2025

- Foundation Models (Time-Series / Language), Time-Series Forecasting

Sungkyunkwan University (SKKU)

B.A. in Culture & Technology (Data Science); GPA: 3.72

Seoul, South Korea

Aug 2023

TECHNICAL SKILLS

Languages: Python, R, SQL

Frameworks: Scikit-learn, TensorFlow, PyTorch, Streamlit

Tools: Git, AWS, MySQL, Tableau, Power BI, Excel, VS Code, Jupyter Notebook, LaTeX

Libraries: Pandas, NumPy, Scipy, Yfinance, Matplotlib, Seaborn, Transformers, Statsmodels

PROFESSIONAL EXPERIENCE

Research Assistant

Texas A&M University-Corpus Christi

Sep 2024 – Present

Corpus Christi, TX

- Led research on time-series forecasting of stock data (TSLA, AAPL, NVDA) using ARIMA, TimesFM, and Chronos-T5 models, targeting short-term (1–7 days) forecasts.
- Engineered key features including lag variables, rolling statistics, and volatility measures to enhance forecast accuracy.
- Improved model performance by 30% MAE reduction, potentially achieving a \$2,000 gain from a hypothetical \$100,000 portfolio investment.
- Built reproducible Python pipelines integrating yfinance API and PyTorch for data ingestion, model training, and performance reporting to support financial decision-making.
- Presented model comparison and forecasting results at Joint NMSU/UTEP Conference to over 30 attendees, highlighting real-world financial implications.

Data Research Associate

Samsung Medical Center

Aug 2022 – Mar 2024

Seoul, South Korea

- Collected and analyzed patient hair data from breast cancer patients using Folliscope 5.0, evaluating chemotherapy-induced alopecia severity with high precision.
- Collected, cleaned, and validated CRF data for esophageal, breast, and lung cancer patients, improving data quality and analysis readiness by 30%.
- Developed comprehensive codebooks and data dictionaries for standardized data documentation, enhancing reproducibility and collaboration across research teams.
- Collaborated with clinicians to deliver reliable datasets, directly supporting ongoing cancer research and informing clinical decision-making.
- Improved data integrity, contributing to enhanced patient care strategies and more efficient treatment planning at Samsung Medical Center.

DATA SCIENCE PROJECTS

Bayesian Healthcare Risk Modeling (Finance-Focused Capstone) | R, MCMC(HMC), Regression May 2025

- Developed probabilistic regression model for forecasting insurance charges, supporting actuarial cost modeling and financial risk assessment.
- Applied Bayesian hierarchical regression with nonlinear effects (age²) and BMI×smoker interaction; validated via HMC and WAIC.
- Outperformed frequentist models (RMSE ↓2.7%, MAE ↓2.1%); enabled better uncertainty quantification for data-driven financial policy design.

PRESENTATIONS & RESEARCH

Joint NMSU/UTEP Conference on Math, Computer Science & Computational Sciences	Apr 2025
<i>Presented forecasting model comparison using Chronos-T5 and TimesFM on TSLA data</i>	<i>Las Cruces, NM</i>
Coastal Bend Mathematics and Statistics Conference	Apr 2025
<i>Presented research on transformer vs. traditional models for stock price prediction</i>	<i>Corpus Christi, TX</i>

AWARDS

SKKU Dean’s Award for Excellence in Global Engagement	Mar 2023
<i>Recognized for top-level academic achievement and cross-cultural research initiatives</i>	<i>Seoul, South Korea</i>