Jess Tran

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Education

Purdue University, Mitch Daniels School of Business — West Lafayette, IN
B.S. Finance | B.S. Supply Chain and Operations Management — *May 2027*
- GPA: 3.52 / 4.00 | Dean's List and Semester Honors (5 semesters)

Work Experiences

Commodity Trading & Operations Intern (Zinc & Copper) — Jun 2026 – Sep 2026
Glencore — *New York City, NY*
- Tracked copper and zinc price dynamics on LME/SHFE, tariff impacts on US warranted/unwarranted inventory, and supply-demand fundamentals; produced market updates referenced by traders in desk research and positioning decisions.
- Generated daily mark-to-market and hedging reports reconciling physical and financial positions; identified 2 duplicate executions (800 MT) via ad-hoc reconciliation, preventing an overhedged position before it hit desk P&L.
- Maintained long/short positions for 5 copper client accounts on CTTS; flagged 2 assay payables mismatches protecting ∼$600k in credit exposure before invoice issuance.
- Generated junior copper concentrate mining projects' research summary on development stage, capital structure, offtake agreements, and CAPEX/NPV to surface deal opportunities for the concentrates desk.

Investor Relations Analyst Intern — Sep 2025 – Apr 2026
Evvolve & Partners — *Remote*
- Built structured Excel models from raw startup financial data, running sensitivity and cash-flow scenario tests to determine runway and capital needs for 2 early-stage companies.
- Identified macro risks (AI valuation bubble, semiconductor supply constraints) and translated operational and supply chain metrics into investor-facing pitch decks for 2 portfolio companies for VC and HNW outreach.

Transfer Pricing Intern — Jun 2025 – Aug 2025
Ernst & Young — *Ho Chi Minh City, Vietnam*
- Constructed 15+ financial benchmarking and valuation models across cyclical and defensive sectors (Logistics, Packaging, and Insurance) to support arm's length transfer pricing frameworks for multinational clients.
- Integrated revenue drivers, cost structures, and profitability metrics (ROA, operating margins) with functional analyses to evaluate comparables and cross-border profit allocation against OECD arm's length principles.

Supply Chain & Sales Operations Intern — Jun 2024 – Aug 2024
Shaoxing Micro Weaving Import and Export Co., Ltd — *Shaoxing, China*
- Built bimonthly Excel and Power BI dashboards tracking volume, margins, on-time delivery, cycle times, and logistics costs across 5 accounts; findings drove decisions on quality disputes, pricing, buyer reallocation, and process changes.

Project Experiences

Copper Market Balance & Price Scenario Model | *Individual Project* — October 2026
- Architected an institutional-grade copper market balance model in Python, forecasting 2026E–2030E fundamentals from bottom-up mine supply constraints, empirical disruption distributions, and demand intensities across 20+ data pipelines.
- Engineered a market-clearing price solver and voyage-aware physical arbitrage calculator, wrapped in a 10,000-draw Monte Carlo engine utilizing Gaussian copulas to stress-test macroeconomic shocks and TC/RC margin scenarios.
- Deployed a Streamlit dashboard with walk-forward forecasts, cutting OOS RMSE by 18% and running scenarios in <2.5s.

Commodity TSMOM Strategy & Risk Threshold Model | *Individual Project* — October 2026
- Built a lookahead-free backtest in Python of a long/short 12-month time-series momentum strategy on 13 commodity futures, 2001–2026, with two-stage volatility targeting to 10%, monthly rebalancing, a 1-day execution lag and 5 bps costs; delivered a 0.34 net Sharpe with a −40% max drawdown against 0.14 and −75% for the Bloomberg Commodity Index.
- Stress-tested the result across a 192-configuration grid, a fixed in-sample/out-of-sample split and cost and lag sweeps, and quantified multiple-testing risk with a Deflated Sharpe Ratio; the a-priori default ranked 12th of 192, held a 0.38 Sharpe out of sample vs. 0.29 in sample, and stayed positive at 20 bps while the median variant turned negative.

Copper Physical-Futures Hedge Optimization & Basis Risk Model | *Individual Project* — July 2026
- Built a minimum-variance copper hedge (LME cash vs. COMEX futures) with a regression hedge ratio of $h^* = 0.5025$. Validated out-of-sample (OOS) with no lookahead bias, reducing daily variance by 34.1% (33.1–33.8% OOS) compared to 0.6% for a naive hedge, and 70.0% weekly.
- Quantified irreducible basis risk with a residual σ = \$0.0433/lb and stress-tested the model through the 2024 COMEX squeeze and 2025 tariff blowout.

Relevant Skills

Tools: Excel (advanced formulas, PivotTables, scenario analysis), Power BI, Python, SQL, R Studio, Tableau
Finance & Analytics: Financial Modeling, Predictive Modeling, Market Research, Arm's Length Analysis, Risk Management
Certification: Financial & Valuation Modeling (Wall Street Prep)