

# Jiexin Fan

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## EDUCATION

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### Boston University

**M.S. in Applied Business Analytics | GPA: 3.81/4.0**

**Expected Dec 2025**

**Core Curriculum:** Data Visualization, Predictive Modeling, Six Sigma, Simulation Modeling, Lean Operations, Workflow Design

### Capital University of Economics and Business

**LL.M. in Jurisprudence, B.S. in Statistics, LL.B. in Law**

**Graduated Jul 2024**

**Core Curriculum:** Operations Management, Financial Concepts, Cloud Analytics for Business, Enterprise Risk Analytics

## SKILL

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**Data Analytics Tools:** Tableau, Python, R (R-Studio), Excel (Advanced), SPSS, SQL

**Techniques:** Predictive Modeling, Data Wrangling, Data Visualization, A/B Testing, Segmentation, Conjoint Analysis, Financial Modeling, Regression, Clustering, Decision Trees

**Business Skills:** Requirements Gathering, Business Process Improvement, Stakeholder Communication, Market Research, Strategic Planning

## INTERNSHIP EXPERIENCE

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### Limax Biosciences, Inc. | Business Analyst Intern

**Jan 2025 - Present**

- Led the development of the Commercialization Plan for a federal grant proposal, resulting in the successful award of \$1M in non-dilutive funding by defining the business model, GTM strategy, and financial projections
- Conducted in-depth market research and data analysis to identify 6 niche opportunities, created interactive dashboards to visualize market potential and support strategic decision-making
- Managed project management using Gantt charts to ensure on-time delivery of key grant milestones and efficient coordination across R&D, regulatory, and business teams
- Developed investor-ready pitch materials that contributed to Limax's top-2 (M2D2) and finalist rankings (PIC) in high-profile startup competitions, and effectively communicated technical concepts to 10 non-technical stakeholders

## PROJECT EXPERIENCE

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### Global Service Operations Optimization Initiative | Core Team Member

- Redesigned global service workflows across 6 countries and departments by modeling staffing strategies and resource allocation using Monte Carlo simulation and Excel, improved throughput by ~20% and reduced overall labor costs by ~15%
- Applied queue modeling to restructure technical support teams, and decreased average technician idle time by ~25% and reduced variability in customer wait times by ~30%
- Executed comparative analysis of specialized versus integrated hardware/software support structures using stochastic modeling; recommended a separated team approach that reduced average ticket resolution time by ~18% while maintaining cost efficiency
- Optimized demand-capacity balance across departments utilized 1-year historical ticket data and simulation to align workforce allocation to maintain utilization rates below 20% and reduce processing delays

### Statistical Quality Control for Healthcare Accreditation of a Hospital | Core Team Member

- Analyzed 6 key KPIs (infections, C-sections, X-rays, readmissions, ED departures, accreditation compliance) using Six Sigma and Process Capability Analysis to assess performance gaps
- Benchmarked hospital outcomes against 5 peer institutions and applied statistical methods (SPC, confidence intervals) to validate compliance with Joint Commission standards
- Identified implementation challenges and risks associated with new operational measures, and delivered comprehensive reports to the board to facilitate strategic decision-making

### Public Transit Optimization: The Indore BRTS System | Analyst

- Developed a stochastic simulation model in R and Excel to forecast passenger demand and evaluate bus capacity, service reliability, and operational efficiency under uncertainty
- Applied queueing theory and Monte Carlo methods to identify systemic bottlenecks and analyze trade-offs between fleet size, wait time, and operating costs
- Leveraged decision tree analysis to optimize scheduling strategies; proposed a bus launch interval of 3 minutes during rush hours and 7 minutes during off-peak hours, reduced average passenger wait time while balancing resource utilization and cost

### LobsterLand Theme Park: Market Positioning & Consumer Insights | Core Team Member

- Designed and executed a consumer survey (N=2054) to test promotional images, analyzed 5 key performance metrics (site spend, click-through, list join, social shares, email forwards) and a composite metric weighted via chi-square analysis
- Identified one commercial image emphasizing "soft power" that significantly outperformed others, achieved the highest composite scores and forward/share ratios, and presented it as a recommendation
- Informed differentiated marketing strategies by conducting K-means clustering analysis in Python to segment the audience into 2 primary groups: individuals (less budget-constrained) and families (more budget-sensitive) to enable targeted campaign optimization
- Applied conjoint analysis to identify the most preferred product bundle consumer preferences' balance with business feasibility