

Jiexin Fan

+1(781)-866-1982 | jiexnfan@gmail.com | Medford, MA (open to relocate)

EDUCATION

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

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

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

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