

Khanh Phan

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EDUCATION

University of California, San Diego

M.S. Data Science

Mar 2026

B.S. Biochemistry and Cell Biology

Jun 2019

EXPERIENCE

Biochemist II | Revvity

Jun 2023 – May 2024

- Improved reagent yield and team output, exceeding quarterly KPIs by 13–18%, through trend analysis in Excel pivot charts and root-cause investigations.
- Designed a material consumption tracking database and applied Kaizen techniques, improving quality through standardization and reducing workflow inefficiencies by 20%.
- Rewrote and standardized 15+ process protocols and batch records, achieving a full compliance rate with GMP standards for Bacteria team and streamlining bacteria cell culture operations
- Generated actionable insights for quality control by analyzing protein samples through SDS-PAGE and endotoxin assays, improving historical yields and reducing up to a full day of production
- Developed lyophilization assays and developed GMP techniques for scaling production yield on key proteins

Production Chemist | QuidelOrtho

Feb 2020 - Mar 2023

- Built and maintained a JMP dashboard integrating SQL and ERP/MES data to visualize reagent trends, reducing waste costs by 15%.
- Performed antibody and particle conjugations, analyzing reagent performance using HPLC, UV-Vis, and fluorometry in support of medical device manufacturing
- Revised protocols on quality systems and ERP, improving workflow efficiency through ease of analysis
- Delivered data reports on reagent trends to leadership, influencing process adjustments and preventive business strategies across manufacturing teams.
- Implemented Lean Six Sigma and Kaizen practices, streamlining workflows to reduce production delays by over 20% and increase throughput by 10% across two quarters, resolving significant backorders
- Awarded Performance Excellence Award for leading and implementing a cross-functional Kaizen project

Data Entry Intern | San Diego Fertility Center

Oct 2019 - Dec 2019

- Audited and migrated 500+ electronic health records from SART databases to submit to CDC systems ensuring compliance with regulatory standards
 - Conducted quality assurance on patient records, reporting and resolving discrepancies by presenting data-driven insights during weekly reporting meetings
 - Shadowed Endocrinology lab staff to understand lab compliance and assist in error mitigation
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SKILLS

Technical

Data Analysis, Database Management, Assay Design, ETL, Data Visualization, Quality Analysis

Tools & Platforms

Python (inc. Pandas, Scikit-learn, NumPy, Matplotlib, Seaborn), SQL, R, Microsoft Office, Tableau, JMP

CERTIFICATIONS

Lean Six Sigma Green Belt Certification

Jun 2025

Six Sigma Global Institute

Data Science and Visualization Certification

May 2023

UC San Diego