



Deondre Do

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Profile

Data Analyst with a PhD in Bioengineering and expertise in statistical modeling and data visualization. Led a multi-center cancer biomarker study achieving AUC 0.77 and developed an automated MRI-CT registration pipeline reducing processing time to under 15 minutes. Proficient in Python, MATLAB, SQL, and client communication. Offers strong analytical skills, detail orientation, and collaborative problem-solving to deliver actionable insights and streamline workflows in a remote team environment.

Work Experience

09/2021 – 12/2025
San Diego, United States

Graduate Student Researcher University of California, San Diego

- Led a multi-center study with 1,890 patients across 7 institutions to validate the Restriction Spectrum Imaging restriction score (RSIrs) as a cancer biomarker, applying rigorous data analysis and report preparation.
- Developed multivariate linear regression and linear mixed-effects models to isolate confounders (age, race, hardware), achieving an AUC of 0.77 for patient-level cancer detection, surpassing the clinical standard ADC metric (AUC: 0.51), demonstrating strong analytical mindset and problem-solving skills.
- Engineered an automated Python/MATLAB pipeline (PrecisionPro Fusion) for MRI-CT image registration, eliminating manual workflows and reducing processing time to under 15 minutes per case with sub-millimeter accuracy, validated on 20 patient cases.
- Aggregated and harmonized heterogeneous medical datasets (DICOM images, patient demographics) from 16 MRI scanners across 2 vendors (GE/Siemens), implementing rigorous data cleaning protocols for missing values, artifact removal, and signal normalization, highlighting detail orientation and flexibility in handling complex data.
- Validated Post-hoc RSI by estimating advanced diffusion metrics from conventional DWI data using multi-exponential signal decay modeling, recovering diagnostic insights from legacy datasets.
- Authored 3 first-author manuscripts, including clinical validation and algorithm optimization studies, demonstrating professional client interaction through scientific communication and teamwork in research collaborations.

09/2022 – 01/2023
San Diego, United States

IT Assistant UCSD Center for Multimodal Imaging & Genetics

- Configured Linux servers to enable secure, multi-institutional data transfer, safeguarding clinical research data prior to deployment
- Managed IT support tickets, facilitating setup and maintenance of computer systems for a diverse user base, ensuring timely resolution and continuous operation
- Authored and maintained Standard Operating Procedures for IT workflows, ensuring consistent, reproducible server setups and reducing onboarding time for new users

Projects

01/2026

Founder/Creator Folioverse

- Identified accessibility barriers in existing TCG tracking apps caused by subscription-gated features and inaccurate OCR, limiting use for hobbyist collectors.
- Designing a cross-platform application featuring a proprietary, free-to-use Computer Vision scanner to automate inventory logging and integrate real-time market data into a Financial Dashboard.
- Developing an image processing pipeline using Pytorch to detect card sets and

Projects

- numbers from live camera feeds, enhancing data accuracy and processing speed.
- Engineer a SQL database to efficiently manage thousands of unique card permutations and historical pingrice data, supporting scalable data analysis.
 - Enabling faster logging and transformed physical card collections into actionable digital financial insights, improving user experience and data utility.

Skills

- CORE SKILLS

Data Analysis
Advanced

Environmental Monitoring
Basic

Flexibility
Intermediate

Analytical Mindset
Advanced

Customer Service
Intermediate

Teamwork
Advanced

Report Preparation
Advanced

Time Management
Intermediate

Detail Orientation
Advanced

Problem Solving
Advanced

Professional Client Interaction
Intermediate

Education

09/2021 – 12/2025
San Diego, United States

Bioengineering | PhD
University of California, San Diego

09/2015 – 09/2019
Los Angeles, United States

Biology | BS
University of California, Los Angeles

Publications

12/2025

PrecisionPro Fusion: Clinical Validation of an Automated MRI-CT Fusion System
TipsRO

<https://www.sciencedirect.com/science/article/pii/S240563242500054X>
Achieved significant reduction in alignment variance → Developed and deployed **PrecisionPro Fusion**, an automated end-to-end MRI-CT registration pipeline using Python and MATLAB to synchronize multi-modal imaging data. Addressed the time-consuming, error-prone manual alignment process that delayed critical physician workflows.

Accelerated diagnostic timelines for physicians → Transitioned the project from R&D to clinical deployment. Results were peer-reviewed and published in TipsRO validating the system's clinical efficacy and operational impact.