## Kinjal Shah

└ (908) 315 6945 | ♀ New York, NY | ⊠ kinjmshah@gmail.com | 怕 kinjshah.com

#### EXPERIENCE

#### Apercu Diagnostics | Product Consultant

- Managed alignment between leadership and an internationally distributed 8 person product development team including project managers, electrical engineers, mechanical engineers, and data scientists
- Advised CEO on prototype development, testing platform design, data quality, and product feasibility
- Identified gap in data analytics strategy and defined new requirements for data generation pipeline and algorithm development to detect presence of bacteria in urine from noisy bedside spectroscopy data

#### MyoExo | Data & Algorithms, Product Lead | Startup Founding Team

- Developed wearable device to monitor progression of neuromuscular disorders
- Defined minimal viable product, created spin-out strategy, and communicated research findings to investors
- Evaluated regulations for medical devices under Direct-to-Consumer versus Business-to-Business market models
- Utilized advanced techniques including PCA, LSTM, and frequency domain analysis to identify digital biomarkers linking multi-sensor data to clinical assessments for Parkinson's Disease
- Led data analysis pipeline development to process data from 7 sensors over 13 experimental conditions per study participant

#### Harvard Biodesign | Translational Research Engineer

- Evaluated research to product tech transfer viability for 2 translational research projects
- Conducted market analysis of collaborative robotics growth in New England to support submission of NSF Engine grant proposal seeking \$160M to create an accelerator for collaborative robotics research
- Explored impact of user priming on force delivered by assistive wearable robot to enable adaptive human-robot interaction

#### Johns Hopkins University | HCI Researcher Advisor: Prof. Mathias Unberath Full Time Researcher (Jan-Dec 2021), Graduate Student Researcher (Jul-Dec 2020) Master's Thesis: Enabling Cognitive Load Aware User Interfaces for Mixed Reality

Accepted to Women in Machine Learning (WiML) Workshop co-located with NeurIPS 2020 - Poster Presentation Patent Pending, PCT Application Serial No. 18/556,973, filed October 23, 2023

- Proposed new research direction and led the design and evaluation of initial proof of concept resulting in patent application and two \$100K+ grant proposals on designing more accessible human-AI interfaces
- Developed predictive models for cognitive state change detection from pupillometry data in unconstrained environments
- Built real-time signal processing pipeline for multi-sensor time series data while maintaining temporal alignment
- Designed experimental protocols for user study to capture eye tracking data under varied light and cognitive load levels

#### Accenture | Life Sciences Consultant

### Management Consultant (2018-19), Senior Analyst (2017-18), Analyst (2016-17)

- Designed R&D technology transformation road-map for clinical and pre-clinical functions at global biotechnology company with projected annual savings of over \$100M
- Managed Medidata Clinical Cloud and Veeva Clinical Vault implementations, encompassing future state design, requirements gathering, user acceptance testing, and cross-functional change management with 40+ client partners resulting in successful launches for two \$10M+ programs
- Directed a 5 person global team to complete waterfall Software Delivery Life Cycle (SDLC) documentation and user testing across 9 workstreams over 12 months

### **EDUCATION**

<b>Johns Hopkins University</b> , MSE in Robotics Master's Thesis: Enabling Cognitive Load Aware User Interfaces for Mixed Reality	May 2021
<b>University of Pennsylvania</b> , BSE in Bioengineering   <i>Magna Cum Laude</i> <i>Concentration in Biomedical Devices</i>	Aug 2016
<b>The Wharton School</b> , BS in Economics   <i>Magna Cum Laude</i> Concentration in Operations, Information, and Decisions with focus on Healthcare Management	Aug 2016

#### SKILLS

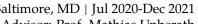
Product: Market Analysis, User Research, Cross Function Management, Requirements Definition, SaMD Machine Learning and Data Analysis: PyTorch, OpenCV, Scikit-Learn, SciPy, NumPy, Pandas, Excel Programming, CAD, and Data Visualization: Python, MATLAB, Git, SolidWorks, Plotly, Matplotlib, Jupyter

# Boston, MA | Jun 2022-Present

Boston, MA | Dec 2021-Mar 2023

Baltimore, MD | Jul 2020-Dec 2021

Philadelphia, PA | Nov 2016-Apr 2019



Freelance | Remote | Aug 2022-Present