

Bao Do, MD

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VA Palo Alto Healthcare System, Aerial photo Jan 2015

Interests



Health Informatics, evaluate commercial & develop in-house solutions for clinical operations

National clinical data warehouse (CDW) = 25M historical Veterans, 128 VAs, 1B documents (600K/day), 590M images (884K/day) - Oct 2011

Leveraging CDW in VINCI for "big data" analytics (VINCI = "next level" of STRIDE/REDCap; virtual desktops accessible anywhere; scalable and PHI approved, AND customizable IDEs for software development & data mining – caveat – require technical skill)

Opportunities



VAPAHCS Quality, Safety, and Informatics Fellowship
Program Director Payam Massaband, Program Mentor David Larson

Radiology Informatics PhD

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Example projects



UNITY – building a *modern* Radiology "RIS", using A.I. & M.L. to triage, protocol, process, follow-up all imaging actions in the hospital

Sentiment Analysis – extracting radiologist confidence in reports (hedge/uncertainty) for QA, accuracy, education/training; **implement at UCSF** – **real-time QA/DS by monitoring dictations**

Bone Tumor Classification Using Naïve Bayes (Beaulieu, Langlotz)

Deep learning to identify bones from x-ray images