



Eduardo Pontes Reis

Postdoctoral Scholar, Radiology

Bio

BIO

I'm a visiting scholar at Stanford AIMI Center, working in the intersection of Artificial Intelligence and Medicine. My purpose is to contribute to our understanding of intelligence. And our best chance to achieve this is through AI.

Research highlights:

- Published BRAX, the Brazilian Chest X-ray Dataset - <https://www.nature.com/articles/s41597-022-01608-8>
- Open-sourced the PyTorch implementation of ConVIRT (Y Zhang et al), a contrastive learning method for radiologic images and text (before CLIP) - <https://github.com/edreisMD/ConVIRT-pytorch>
- Released Brain Hemorrhage Annotations - Brain Hemorrhage Extended - BHX (<https://physionet.org/content/bhx-brain-bounding-box>)

At Hospital Israelita Albert Einstein:

- Started the Health Story project, a medical history timeline to support research and a more personalized clinical practice
- Ran the development of AI algorithms for diseases of national importance: Tuberculosis, COVID, Melanoma and Head CT

STANFORD ADVISORS

- Bruno Soares, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Clinical Text Summarization: Adapting Large Language Models Can Outperform Human Experts.** *Research square*

Veen, D. V., Uden, C. V., Blankemeier, L., Delbrouck, J. B., Aali, A., Bluethgen, C., Pareek, A., Polacin, M., Reis, E. P., Seehofnerova, A., Rohatgi, N., Hosamani, P., Collins, et al
2023

- **Skeletal Muscle Area on CT: Determination of an Optimal Height Scaling Power and Testing for Mortality Risk Prediction.** *AJR. American journal of roentgenology*

Blankemeier, L., Yao, L., Long, J., Reis, E. P., Lenchik, L., Chaudhari, A. S., Boutin, R. D.
2023

- **Evaluating progress in automatic chest X-ray radiology report generation.** *Patterns (New York, N.Y.)*

Yu, F., Endo, M., Krishnan, R., Pan, I., Tsai, A., Reis, E. P., Fonseca, E. K., Lee, H. M., Abad, Z. S., Ng, A. Y., Langlotz, C. P., Venugopal, V. K., Rajpurkar, et al
2023; 4 (9): 100802

- **Deep COVID DeteCT: an international experience on COVID-19 lung detection and prognosis using chest CT.** *NPJ digital medicine*

Lee, E. H., Zheng, J. n., Colak, E. n., Mohammadzadeh, M. n., Houshmand, G. n., Bevins, N. n., Kitamura, F. n., Altinmakas, E. n., Reis, E. P., Kim, J. K., Klochko, C. n., Han, M. n., Moradian, et al
2021; 4 (1): 11