Stanford

Priyamvada(Priya) Desai

Rsch Technical Mgr 1, Technology & Digital Solutions

Bio

BIO

I am a physicist by training and data scientist at heart. As the Biomedical Informatics R&D lead of the Research IT team, I am passionate about our mission to build the next generation of products to leverage healthcare research and analytics. As the Product owner for STARR, Stanford Medicine Research data Repository, and STARR-OMOP, Stanford's next-generation Clinical Data Warehouse (CDW), I am super excited to be part of the vision to create a single integrated data lake containing clinical data of different modalities such as radiology, pathology, and bedside monitoring. Our goal is to bring clinical data from its raw state to an “analysis-ready” state and eventually make the data “self-service" in order to support the growing use of this data to derive novel insights, support patient care, and improve care quality using Artificial Intelligence (AI) and Machine Learning (ML) approaches.

I’ve had the privilege of working on many different data-centric projects here at Stanford and elsewhere, including developing the algorithms for SciReader: a cloud-based recommender system for biomedical literature. Prior to transitioning to healthcare and medicine, I was a research analyst at Chandra X-ray Observatory and the Solar Dynamics Observatory.

CURRENT ROLE AT STANFORD

Manager, Biomedical Informatics R &D

EDUCATION AND CERTIFICATIONS

- Certification, UC San Diego , Data Mining (2013)
- MS, Indian Institute of Technology , Physics

PROJECTS

- STARR-OMOP - Stanford University

PERSONAL INTERESTS

Painting, gardening, sewing, cooking, and hiking!

Professional

PROFESSIONAL INTERESTS

Women in Data Science, Women in STEM, OHDSI Network

Publications

PUBLICATIONS

- **A new paradigm for accelerating clinical data science at Stanford Medicine** *arXiv*
  Datta, S., Posada, J., et al
  2020

- **SciReader: A Cloud-based Recommender System for Biomedical Literature** *bioRxiv*
  Desai, P., Telis, N., Lehman, B., Bettinger, K., Pritchard, J.
  2018

- **NEW IDENTIFICATIONS OF Fe IX, Fe x, Fe XI, Fe XII, AND Fe XIII LINES IN THE SPECTRUM OF PROCYON OBSERVED WITH THE CHANDRA X-RAY OBSERVATORY** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
  Beiersdorfer, P., Lepson, J. K., Desai, P., Diaz, F., Ishikawa, Y.
  2014; 210 (2)

- **A New Temperature Determination Using the Fe XVII Emission of Capella**
  Beiersdorfer, P., Gu, M. E., Lepson, J., Desai, P., JohnsKrull, C. M., Browning, M. K., West, A. A.
  ASTRONOMICAL SOC PACIFIC.2012: E787–E794

- **Laboratory Calibration of Density-Dependent Lines in the Extreme Ultraviolet Spectral Region**
  Lepson, J. K., Beiersdorfer, P., Gu, M. F., Desai, P., Bitter, M., Roquemore, L., Reinke, M. L., Aggarwal, K., Shearer, F.
  AMER INST PHYSICS.2012: 136–41

- **Line Identifications and Spectral Diagnostics of Capella and Procyon: Digging Deeper into the spectrum.** *Line Identifications and Spectral Diagnostics of Capella and Procyon: Digging Deeper into the spectrum.*
  Desai, P.
  2010

- **Status of Line identifications in the Chandra LETG Spectrum of Procyon**
  Desai, P., Beiersdorfer, P., Brickhouse, N. S., Gu, M. F., Lepson, J. K., Stempels, E.
  AMER INST PHYSICS.2009: 588-+

- **An assessment of the Fe XVIII and Fe XIX line ratios from the Chandra grating observations of Capella** *ASTROPHYSICAL JOURNAL*
  Desai, P., Brickhouse, N. S., Drake, J. J., Dupree, A. K., Edgar, R. J., Hoogerwerf, R., Kashyap, Wargelin, B. J., Smith, R. K., Huenemoerder, D. P., Liedahl, D. A.
  2005; 625 (1): L59–L62

- **Progress and plans for the astrophysical plasma emission code (APEC)**
  Brickhouse, N. S., Desai, P., Hoogerwerf, R., Liedahl, D. A., Smith, R. K., Smith, R. K.
  AMER INST PHYSICS.2005: 405–7

- **Comparison of Fe XVIII and Fe XIX line emissions with spectral models**
  Desai, P., Brickhouse, N. S., Drake, J. J., Edgar, R. J., Hoogerwerf, R., Kashyap, Wargelin, B. J., Smith, R. K., Huenemoerder, D. P., Liedahl, D. A., Smith, R. K.
  AMER INST PHYSICS.2005: 155–57