Stanford

Malvika Pillai

Postdoctoral Scholar, Biomedical Informatics

Bio

BIO

Malvika Pillai is a postdoctoral research fellow in the VA Big Data Scientist Training Enhancement Program (BD-STEP), jointly in Stanford University in Medicine (Biomedical Informatics) in the Boussard Lab and VA Palo Alto. She received her BS in Quantitative Biology and PhD in Health Informatics from the University of North Carolina at Chapel Hill. Her current work focuses on the development, evaluation and implementation of machine learning algorithms for clinical decision support.

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of North Carolina, Chapel Hill (2022)
- Bachelor of Science, University of North Carolina, Chapel Hill (2017)
- PhD, University of North Carolina at Chapel Hill, North Carolina , Health Informatics (2022)
- BS, University of North Carolina at Chapel Hill, North Carolina , Quantitative Biology (2017)

STANFORD ADVISORS

- Tina Hernandez-Boussard, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Measuring quality-of-care in treatment of young children with attention-deficit/hyperactivity disorder using pre-trained language models.** *Journal of the American Medical Informatics Association : JAMIA*
  Pillai, M., Posada, J., Gardner, R. M., Hernandez-Boussard, T., Bannett, Y.
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- **Augmenting Quality Assurance Measures in Treatment Review with Machine Learning in Radiation Oncology** *ADVANCES IN RADIATION ONCOLOGY*
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- **Toward Community-Based Natural Language Processing (CBNLP): Cocreating With Communities.** *Journal of medical Internet research*
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- **Validation approaches for computational drug repurposing: a review.** *AMIA ... Annual Symposium proceedings. AMIA Symposium*
  Pillai, M., Wu, D.
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- **Recommendations for design of a mobile application to support management of anxiety and depression among Black American women.** *Frontiers in digital health*

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- **An Interpretable Machine Learning Approach to Prioritizing Factors Contributing to Clinician Burnout**
  Pillai, M., Adapa, K., Foster, M., Kratzke, I., Charguia, N., Mazur, L., Ceci, M., Flesca, S., Masciari, E., Manco, G., Ras, Z. W.
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