Stanford

Praneeta R. Konduri

Postdoctoral Scholar, Neurology and Neurological Sciences

Bio

BIO

Dr. Konduri is a Postdoctoral scholar at the Department of Neurology and Neurological Sciences. With a background in biomedical engineering, she conducted her PhD research as part of a European consortium that developed computational stroke models, while also analyzing post-treatment brain tissue damage from multicenter clinical trials to assess prognosis. After completing her PhD, she continued as a Postdoctoral Researcher within the European consortium GEMINI, that aimed to implement digital twins for personalized stroke treatment. At the Stanford Stroke Center, she now focusses on developing AI tools for stroke diagnosis, treatment evaluation, prognostication, and personalized treatment development.

HONORS AND AWARDS

- Paul Dudley White International Scholar Award-Netherlands, American Heart Association (2025)
- Invited Speaker on "Towards digital twins of stroke patients", Society of Neurointerventional Surgery Annual Meeting (2024)
- Invited Speaker on "In silico trials for treatment of acute ischemic stroke", Conference: Thrombolysis and Thrombectomy treatment for AIS (2023)
- Invited speaker: New solutions and innovative study designs to running international clinical trials, European Stroke Organisation Trials Alliance Meeting (2023)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Amsterdam (2023)
- Bachelor of Technology, Manipal Institute of Technology (2015)
- Master of Science, Technische Universiteit Delft (2017)
- PhD, University of Amsterdam , Image analysis and in-silico simulation of acute ischemic stroke (2023)
- MSc., Delft University of Technology , Biomedical Engineering - Medical Physics (2017)
- B. Tech, Manipal Institute of Technology, Manipal, Karnataka, India , Biomedical Engineering (2015)

STANFORD ADVISORS

- Maarten Lansberg, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Temporal Net Water Uptake Evolution and its Association with Functional Outcome in Acute Ischemic Stroke.** *AJNR. American journal of neuroradiology*

  Olszewski, W., Cavalcante, F., van Poppel, L., Beenen, L., Emmer, B. J., van den Wijngaard, I., Lemmens, R., Roos, Y., Marquering, H., Majoie, C., Konduri, P.

  2026

- **Deep learning-based non-contrast CT imaging markers enhance post-transfer DWI core volume prediction.** *AJNR. American journal of neuroradiology*
  van Voorst, H., Konduri, P., Ter Schiphorst, A., Vandewalle, L., Liu, Y., Jiang, B., Heylen, E., Mlynash, M., Christensen, S., Dehkharghani, S., Albers, G. W., Zaharchuk, G., Lansberg, et al
  2026

- **Macrovascular angiographic and tissue-level perfusion collateral scoring to predict inter-hospital infarct growth rate**
  Konduri, P. R., van Voorst, H., de Wilde, D., Seners, P., Vandewalle, L., ter Schiphorst, A., Wouters, A., Christensen, S., Yuen, N., Kemp, S., Zaharchuk, G., Mlynash, M., Albers, et al
  LIPPINCOTT WILLIAMS & WILKINS.2026

- **Aggregate Multi-tiered Normalization to Enhance Detection of Impairment in Dynamic BOLD-CVR for Assessment of Hemodynamic Impairment**
  Zhu, Y., Wang, X., Dogra, S., Voorst, H., Heylen, E., Konduri, P. R., Schiphorst, A., Heit, J., Lansberg, M., Albers, G., Dehkharghani, S.
  LIPPINCOTT WILLIAMS & WILKINS.2026

- **Automated Quantification of Infarct Growth in Endovascular Thrombectomy Using Deep Learning**
  Talati, I., Voorst, H., Yu, Y., Liu, Y., Konduri, P. R., Albers, G., Zaharchuk, G., Heit, J.
  LIPPINCOTT WILLIAMS & WILKINS.2026

- **Deep generative models for vessel segmentation in CT angiography of the brain.** *Computers in biology and medicine*
  van Voorst, H., Su, J., Konduri, P. R., Majoie, C. B., Roos, Y. B., Emmer, B. J., Marquering, H. A., de Vos, B. D., Caan, M. W., Isgum, I., MR CLEAN Registry collaborators
  2026; 202: 111432

- **Subacute edema progression after acute ischemic stroke: impact of intravenous alteplase administration and reperfusion degree** *FRONTIERS IN NEUROLOGY*
  Olszewski, W., Cavalcante, F., van Poppel, L., Beenen, L., Emmer, B. J., van den Wijngaard, I., Lemmens, R., Roos, Y., Marquering, H., Konduri, P., Majoie, C., MRCLEAN NO IV Trial Investigators Multictr Randomized Clin Trial
  2025; 16

- **Subacute edema progression after acute ischemic stroke: impact of intravenous alteplase administration and reperfusion degree.** *Frontiers in neurology*
  Olszewski, W., Cavalcante, F., van Poppel, L., Beenen, L., Emmer, B. J., van den Wijngaard, I., Lemmens, R., Roos, Y., Marquering, H., Konduri, P., Majoie, C.
  2025; 16: 1698480

- **White matter lesion effect modification of aspirin and unfractionated heparin during endovascular stroke treatment.** *Insights into imaging*
  van Poppel, L. M., de Vries, L., Mojtahedi, M., van Voorst, H., Konduri, P. R., van de Graaf, R. A., van der Steen, W., Martou, L., Bentley, P., Marquering, H. A., Emmer, B. J., Majoie, C. B.
  2025; 16 (1): 224

- **Hypodensity Beyond the Ischemic Core: Penumbral Changes Detected With Relative Noncontrast Computed Tomography.** *Stroke*
  Vandewalle, L., Konduri, P. R., Christensen, S., Seners, P., Wouters, A., Yuen, N., Mlynash, M., Kemp, S., Heit, J. J., Albers, G. W., Demeestere, J., Lansberg, M. G., Lemmens, et al
  2025