

Chinmay Prabhakar

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Education

- 2021 – present 📌 **Ph.D., University of Zurich, Switzerland**
Department of Quantitative Biomedicine
- 2017 – 2020 📌 **M.Sc. Informatics, Technical University of Munich, Germany**
Thesis title: *Natural Language Based 3D Object Localization in Volumetric Grids.*
GPA: 1.5 / 1 (best)
- 2010 – 2014 📌 **B.E. Computer Science, Birla Institute of Technology, Mesra, Ranchi, India.**
GPA: 8.56 / 10 (best)

Research Publications

- 1 **C. Prabhakar**, B. Wittmann, T. Amiranashvili, *et al.*, “Vesseltok: Tokenizing vessel-like 3d biomedical graph representations for reconstruction and generation,” *arXiv preprint arXiv:2603.18797*, 2026.
- 2 **C. Prabhakar**, B. Wittmann, P. Büschl, H. B. Li, B. Menze, and S. Shit, “Sparse representation learning for vessels,” *arXiv preprint arXiv:2605.01382*, 2026.
- 3 **C. Prabhakar**, S. Shit, T. Amiranashvili, H. B. Li, and B. Menze, “Semantically consistent discrete diffusion for 3d biological graph modeling,” in *International Conference on Medical Image Computing and Computer-Assisted Intervention*, Springer, 2025, pp. 594–604.
- 4 **C. Prabhakar**, H. Li, J. Yang, S. Shit, B. Wiestler, and B. Menze, “Vit-ae++: Improving vision transformer autoencoder for self-supervised medical image representations,” in *Medical Imaging with Deep Learning*, PMLR, 2024, pp. 666–679.
- 5 **C. Prabhakar**, S. Shit, F. Musio, *et al.*, “3d vessel graph generation using denoising diffusion,” in *International Conference on Medical Image Computing and Computer-Assisted Intervention*, Springer, 2024, pp. 3–13.
- 6 **C. Prabhakar**, S. Shit, J. C. Paetzold, *et al.*, “Vesselformer: Towards complete 3d vessel graph generation from images,” in *Medical Imaging with Deep Learning*, PMLR, 2024, pp. 320–331.
- 7 **C. Prabhakar**, H. B. Li, J. C. Paetzold, *et al.*, “Self-pruning graph neural network for predicting inflammatory disease activity in multiple sclerosis from brain mr images,” in *International Conference on Medical Image Computing and Computer-Assisted Intervention*, Springer, 2023, pp. 226–236.
- 8 **C. Prabhakar**, A. Sekuboyina, H. B. Li, *et al.*, “Structured knowledge graphs for classifying unseen patterns in radiographs,” in *Geometric Deep Learning in Medical Image Analysis*, PMLR, 2022, pp. 45–60.

Industry Experience

- 2018 – 2019 📌 **Software Developer (Work Student)** Intel, Munich, Germany
- 2014 – 2017 📌 **Analyst-System Developer**, Verizon Data Services, Hyderabad, India

Miscellaneous Experience

- 2024-2025 📌 **Co-organizer** TopCoW and TopBrain MICCAI challenges
- 2022 📌 **Tutor**, EXCITE Summer School Applications of Machine Learning in Medical Domain.