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Using deep learning models in image processing

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Curriculum Vitae

Zhan Xiong was born in 1988 in Chongqing, China. He began his bachelor's degree in computer science at Southwest University in 2006 and completed his master's degree in Computer Vision there in 2010. During his master's studies, he worked in the Multimedia Lab under Prof. Guoqiang Xiao on medical image analysis, developing an interest in applied mathematics.

In 2013, he received a Chinese Scholarship Council scholarship and started his PhD at Leiden University under Prof. Fons Verbeek. His research combined image analysis and bioinformatics, covering machine learning, image reconstruction, algorithm design, and data analysis. He later shifted toward deep learning and model interpretability, strengthening his mathematical foundation in areas such as calculus, linear algebra, probability, and Bayesian inference.

During his PhD at Leiden University, he took courses including Communication in Science, Effective Communication, Time Management, and Scientific Conduct. He aims to develop interpretable and controllable deep learning systems that integrate theory with practice.

Author Publication List

Zhan Xiong and Fons J. Verbeek. Segmentation of Zebrafish Larva Inhomogeneous 3D Images Using the Level-Set Method. In David L. Kao, Thomas Wischgoll, and Song Zhang, editors, *Visualization and Data Analysis 2016, San Francisco, California, USA, February 14-18, 2016*, pages 1–9. Society for Imaging Science and Technology, 2016.

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Zhan Xiong
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