CURRICULUM VITAE

Wenxuan Li
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Education

From	To	Degree	Institution and Location	Field of Study
8/2024	5/2027	Ph.D.	Johns Hopkins University, USA	Computer Science
8/2022	12/2023	M.S.E.	Johns Hopkins University, USA	Computer Science
9/2017	12/2021	B.Sc., Cum Laude	University of Delaware, USA	Computer Science

Awards and Recognitions

External Awards and Recognitions

2026 CVPR 2026 Outstanding Reviewer (Top 5%)
2026 Third place in 2026 Johns Hopkins Healthcare Design Competition (9 out of 568)
2025 Runner-up, MICCAI Best Paper Award (2 out of 1017)
2025 First place in Medical Segmentation Decathlon (MSD) Competition

Internal Awards and Recognitions

2025 Finalist, Whiting School of Engineering Trainee Award, Johns Hopkins University
2017-21 Dean's List, University of Delaware

Professional Services

Workshop Organizer

CVPR'26 Workshop on Medical Computer Vision (MCV), Denver, USA

Conference Program Committee

International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI'26), Strasbourg, France
Conference on Computer Vision and Pattern Recognition (CVPR'26), Denver, USA
Conference on Computer Vision and Pattern Recognition (CVPR'25), Nashville, USA

Press Coverage

11/26/2025 JHU WSE News: Hold on to your PanTS—there's a new pancreatic cancer detection dataset in town
11/24/2025 JHU CS News: CCVL researchers to present 18 abstracts at RSNA 2025
9/22/2025 JHU Malone Center News: For AI tumor detection, a picture isn't always worth a thousand words
7/29/2025 Johns Hopkins Engineering Magazine: Gut Check
2/19/2025 JHU News-Letter: AbdomenAtlas: an AI-based approach for early cancer diagnosis
2/17/2025 JHU CS News: A touchstone of medical artificial intelligence
2/4/2025 JHU News: AI-Powered Map of the Abdomen Could Help Find Cancer Early On
2/6/2024 JHU WSE News: AI and Radiologists Unite to Map the Abdomen

Challenges and Tutorials

Challenge for Vision-Language Modeling in 3D Medical Imaging

2025 Venue: International Conference on Computer Vision (ICCV)
2025 Venue: Medical Image Computing and Computer Assisted Intervention (MICCAI)
Organizers: Ibrahim Ethem Hamamci, Sezgin Er, Suprosanna Shit, Ezequiel De la Rosa, Anjany Sekuboyina, Murong Xu, Chinmay Prabhakar, Christian Bluethgen, Ayse Gulnihan Simsek, Omer Faruk Durugol, Sevval Nil Esirgun, Muhammed Furkan Dasdelen, Neslihan Simsek, Gulhan Ertan Akan, Mehmet Kemal Ozdemir, Melih Akan, Chenyu Wang, Weicheng Dai, Kayhan Batmanghelich, Xiaoman Zhang, Mohammed Baharoon, Luyang Luo, Pranav Rajpurkar, Pedro R. A. S. Bassi, Yixiong Chen, **Wenxuan Li**, Alan Yuille, Zongwei Zhou, Hadrien Reynaud,

Bernhard Kainz, Chaoyi Wu, Weidi Xie, Benjamin Hou, Zhiyong Lu, Daguang Xu, Dong Yang, Pengfei Guo, Marc Edgar, Bjoern Menze

Body Maps: Towards 3D Atlas of Human Body

2024 Venue: Medical Image Computing and Computer Assisted Intervention (MICCAI)

2024 Venue: IEEE International Symposium on Biomedical Imaging (ISBI)

Organizers: **Wenxuan Li**, Pedro Ricardo Ariel Salvador Bassi, Yucheng Tang, Jianning Li, Zongwei Zhou, Alan Yuille, Yu-Cheng Chou, Qi Chen, Junfei Xiao, Jieneng Chen, Angtian Wang, Yaoyao Liu, Xiaoxi Chen, Jincheng Wang, Huimin Xue, Yixiong Chen, Chongyu Qu, Yuxiang Lai, Hualin Qiao, Yining Cao, Haoqi Han, Xiaorui Lin, Yutong Tang

Publications

Peer-refereed Journal Publications

1. **Wenxuan Li**, Chongyu Qu, Xiaoxi Chen, Pedro R. A. S. Bassi, Yijia Shi, Yuxiang Lai, Qian Yu, Huimin Xue, Yixiong Chen, Xiaorui Lin, Yutong Tang, Yining Cao, Haoqi Han, Zheyuan Zhang, Jiawei Liu, Tiezheng Zhang, Yujiu Ma, Jincheng Wang, Guang Zhang, Alan L. Yuille, Zongwei Zhou*. "AbdomenAtlas: A Large-Scale, Detailed-Annotated, & Multi-Domain Dataset for Efficient Transfer Learning and Open Algorithmic Benchmarking." Medical Image Analysis, 2024. (**Covered by JHU News and JHU News-Letter; WSE Trainee Award Finalist**)
2. Jianning Li, Zongwei Zhou, Jiancheng Yang, Antonio Pepe, Christina Gsaxner, Gijs Luijten, Chongyu Qu, Tiezheng Zhang, Xiaoxi Chen, **Wenxuan Li**, Marek Wodzinski, Paul Friedrich, Kangxian Xie, Yuan Jin, Narmada Ambigapathy, Enrico Nasca, Naida Solak, Gian Marco Melito, Viet Duc Vu, Afaque R. Memon, Christopher Schlachta, Sandrine De Ribaupierre, Rajnikant Patel, Roy Eagleson, Xiaojun Chen, Heinrich Mächler, Jan Stefan Kirschke, Ezequiel de la Rosa, Patrick Ferdinand Christ, Hongwei Bran Li, David G. Ellis, Michele R. Aizenberg, Sergios Gatidis, Thomas Küstner, Nadya Shusharina, Nicholas Heller, Vincent Andrearczyk, Adrien Depeursinge, Mathieu Hatt, Anjany Sekuboyina, Maximilian Löffler, Hans Liebl, Reuben Dorent, Tom Vercauteren, Jonathan Shapey, Aaron Kujawa, Stefan Cornelissen, Patrick Langenhuizen, Achraf Ben-Hamadou, Ahmed Rekik, Sergi Pujades, Edmond Boyer, Federico Bolelli, Costantino Grana, Luca Lumetti, Hamidreza Salehi, Jun Ma, Yao Zhang, Ramtin Gharleghi, Susann Beier, Arcot Sowmya, Eduardo A. Garza-Villarreal, Thania Balducci, Diego Angeles-Valdez, Roberto Souza, Leticia Rittner, Richard Frayne, Yuanfeng Ji, Vincenzo Ferrari, Soumick Chatterjee, Florian Dubost, Stefanie Schreiber, Hendrik Mattern, Oliver Speck, Daniel Haehn, Christoph John, Andreas Nürnberger, João Pedrosa, Carlos Ferreira, Guilherme Aresta, António Cunha, Aurélio Campilho, Yannick Suter, Jose Garcia, Alain Lalande, Vicky Vandenbossche, Aline Van Oevelen, Kate Duquesne, Hamza Mekhzoum, Jef Vandemeulebroucke, Emmanuel Audenaert, Claudia Krebs, Timo van Leeuwen, Evie Vereecke, Hauke Heidemeyer, Rainer Röhrig, Frank Hölzle, Vahid Badeli, Kathrin Krieger, Matthias Gunzer , Jianxu Chen, Timo van Meegdenburg, Amin Dada, Miriam Balzer, Jana Fragemann, Frederic Jonske, Moritz Rempe, Stanislav Malorodov, Fin H. Bahnsen, Constantin Seibold, Alexander Jaus, Zdravko Marinov, Paul F. Jaeger, Rainer Stiefelhagen, Ana Sofia Santos, Mariana Lindo, André Ferreira, Victor Alves, Michael Kamp, Amr Abourayya, Felix Nensa, Fabian Hörst, Alexander Brehmer, Lukas Heine, Yannik Hanusrichter, Martin Weßling, Marcel Dudda, Lars E. Podleska, Matthias A. Fink, Julius Keyl, Konstantinos Tserpes, Moon-Sung Kim, Shireen Elhabian, Hans Lamecker, Dženan Zukić, Beatriz Paniagua, Christian Wachinger, Martin Urschler, Luc Duong, Jakob Wasserthal, Peter F. Hoyer, Oliver Basu, Thomas Maal, Max J. H. Witjes, Gregor Schiele, Ti-chiun Chang, Seyed-Ahmad Ahmadi, Ping Luo, Bjoern Menze, Mauricio Reyes, Thomas M. Deserno, Christos Davatzikos, Behrus Puladi, Pascal Fua, Alan L. Yuille, Jens Kleesiek, Jan Egger. "MedShapeNet - A Large-Scale Dataset of 3D Medical Shapes for Computer Vision." *Biomedical Engineering / Biomedizinische Technik,* 2025.

Peer-refereed Conference Proceedings

3. **Wenxuan Li**, Xinze Zhou, Qi Chen, Tianyu Lin, Pedro R. A. S. Bassi, Xiaoxi Chen, Chen Ye, Zheren Zhu, Kai Ding, Heng Li, Kang Wang, Yang Yang, Yucheng Tang, Daguang Xu, Alan L. Yuille, Zongwei Zhou*. "PanTS: The Pancreatic Tumor Segmentation Dataset." Conference on Neural Information Processing Systems (NeurIPS'25), 2025. (**Covered by JHU WSE News; Third place, Johns Hopkins Healthcare Design Competition 2026**)
4. **Wenxuan Li**, Pedro R. A. S. Bassi, Yucheng Tang, Fabian Isensee, Zifu Wang, Jieneng Chen, Yu-Cheng Chou, Saikat Roy, Yannick Kirchhoff, Maximilian Rokuss, Ziyan Huang, Jin Ye, Junjun He, Tassilo Wald, Constantin Ulrich, Michael Baumgartner, Klaus H. Maier-Hein, Paul Jaeger, Yiwen Ye, Yutong Xie, Jianpeng Zhang, Ziyang Chen, Yong Xia, Zhaohu Xing, Lei Zhu, Yousef Sadegheih, Afshin Bozorgpour, Pratibha Kumari, Reza Azad, Dorit Merhof, Pengcheng Shi, Ting Ma, Yuxin Du, Fan Bai, Tiejun Huang, Bo Zhao, Haonan Wang, Xiaomeng Li, Hanxue Gu, Haoyu Dong, Jichen Yang, Maciej A. Mazurowski, Saumya Gupta, Linshan Wu, Jiaxin Zhuang, Hao Chen, Holger Roth, Daguang Xu, Matthew B. Blaschko, Sergio Decherchi, Andrea Cavalli, Alan L. Yuille*, Zongwei Zhou*. "Touchstone Benchmark: Are We on the Right Way for Evaluating AI Algorithms for Medical Segmentation?" Conference on Neural Information Processing Systems (NeurIPS'24), 2024. (**Covered by JHU CS News**)
5. **Wenxuan Li**, Alan L. Yuille, Zongwei Zhou*. "How Well Do Supervised 3D Models Transfer to Medical Imaging Tasks?" International Conference on Learning Representations (ICLR'24), 2024. (**Oral Presentation**)

6. Qi Chen, Xinze Zhou, Chen Liu, Hao Chen, Zekun Jiang, **Wenxuan Li**, Ziyan Huang, Yuxuan Zhao, Dexin Yu, Junjun He, Yefeng Zheng, Ling Shao, Alan L. Yuille, Zongwei Zhou*. "Scaling Laws in Tumor Segmentation: Best Lessons from Real and Synthetic Data." International Conference on Computer Vision (ICCV'25), 2025.
7. Pedro R. A. S. Bassi, Mehmet Can Yavuz, Kang Wang, Xiaoxi Chen, **Wenxuan Li**, Sergio Decherchi, Andrea Cavalli, Yang Yang, Alan Yuille, Zongwei Zhou*. "RadGPT: Constructing 3D Image-Text Tumor Datasets." International Conference on Computer Vision (ICCV'25), 2025.
8. Pedro R. A. S. Bassi, **Wenxuan Li**, Jieneng Chen, Zheren Zhu, Tianyu Lin, Sergio Decherchi, Andrea Cavalli, Kang Wang, Yang Yang, Alan L. Yuille, Zongwei Zhou*. "Learning Segmentation from Radiology Reports." International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI'25), 2025. (**Runner-up, Best Paper Award; Covered by JHU Malone Center News**)
9. Ariel Lubonja, Pedro R. A. S. Bassi, **Wenxuan Li**, Hualin Qiao, Randal Burns, Alan L. Yuille, Zongwei Zhou*. "Auditing Significance, Metric Choice, and Demographic Fairness in Medical AI Challenges." MICCAI Workshop on Machine Learning in Medical Imaging (MLMI'25), 2025
10. Junqi Liu, Dongli He, **Wenxuan Li**, Ningyu Wang, Alan L. Yuille, Zongwei Zhou*. "ShapeKit." MICCAI Workshop on Shape in Medical Imaging (ShapeMI), 2025. (**Oral Presentation**)
11. Pedro R. A. S. Bassi, Qilong Wu, **Wenxuan Li**, Sergio Decherchi, Andrea Cavalli, Alan L. Yuille, Zongwei Zhou*. "Label Critic: Design Data Before Models." IEEE International Symposium on Biomedical Imaging (ISBI'25), 2025.
12. Junfei Xiao, Ziqi Zhou, **Wenxuan Li**, Shiyi Lan, Jieru Mei, Zhiding Yu, Bingchen Zhao, Alan Yuille, Yuyin Zhou, Cihang Xie. "A Semantic Space is Worth 256 Language Descriptions: Make Stronger Segmentation Models with Descriptive Properties." European Conference on Computer Vision (ECCV'24), 2024.

Peer-refereed Conference Abstracts

13. **Wenxuan Li**, Pedro R. A. S. Bassi, Xinze Zhou, Qi Chen, Kai Ding, Heng Li, Yang Yang, Kang Wang, Alan Yuille, Zongwei Zhou*. "AI-Assisted Pancreatic Target Delineation on CT: Multicenter Validation and Contouring QA." AAPM Annual Meeting & Exhibition, 2026. (**Oral Presentation**)
14. **Wenxuan Li**, Pedro R. A. S. Bassi, Xinze Zhou, Kang Wang, Yang Yang, Alan Yuille, Zongwei Zhou*. "Cancerverse: Multicenter CT Segmentation of 16 Cancers for Radiotherapy Targets and Oars." AAPM Annual Meeting & Exhibition, 2026. (**Snap Oral Presentation**)
15. **Wenxuan Li**, Xinze Zhou, Qi Chen, Pedro R. A. S. Bassi, Yucheng Tang, Kai Ding, Heng Li, Yang Yang, Kang Wang, Alan Yuille, Zongwei Zhou*. "A Multicenter Pancreatic Target Segmentation Dataset for Radiotherapy and Imaging AI Benchmarking." AAPM Annual Meeting & Exhibition, 2026. (**Snap Oral Presentation**)
16. **Wenxuan Li**, Pedro R. A. S. Bassi, Xinze Zhou, Qi Chen, Tianyu Lin, Xiaoxi Chen, Szymon Plotka, Jaroslaw Ćwikła, Shanhan Jiang, Chandana G. Lall, Zheren Zhu, Yang Yang, Kai Ding, Heng Li, Kang Wang, Alan L. Yuille, Zongwei Zhou*. "Early Pancreatic Cancer Detection via Prediagnostic CT and Artificial Intelligence." Radiological Society of North America (RSNA), 2025. (**Oral Presentation**)
17. **Wenxuan Li**, Qi Chen, Kang Wang, Heng Li, Alan L. Yuille, Zongwei Zhou*. "Rewinding Late-Stage CT Scans to Train AI for Early Pancreatic Cancer Detection." Radiological Society of North America (RSNA), 2025. (**Oral Presentation**)
18. **Wenxuan Li**, Yucheng Tang, Daguang Xu, Alan L. Yuille, Zongwei Zhou*. "AI-Powered Map of the Abdomen Could Help Find Cancer Early On." Radiological Society of North America (RSNA), 2025.
19. **Wenxuan Li**, Xinze Zhou, Qi Chen, Pedro R. A. S. Bassi, Xiaoxi Chen, Zheren Zhu, Yang Yang, Kang Wang, Alan L. Yuille, Zongwei Zhou*. "CancerVerse: Robust Segmentation of 16 Major Cancers in Computed Tomography." Radiological Society of North America (RSNA), 2025.
20. **Wenxuan Li**, Alan L. Yuille, Zongwei Zhou*. "Exploiting Structural Consistency of Chest Anatomy for Unsupervised Anomaly Detection in Radiography Images." Radiological Society of North America (RSNA), 2025.
21. **Wenxuan Li**, Alan L. Yuille, Zongwei Zhou*. "AbdomenAtlas: AI and Radiologists Unite to Map the Abdomen." Radiological Society of North America (RSNA), 2024. (**Oral Presentation**)
22. **Wenxuan Li**, Xiaoxi Chen, Yucheng Tang, Alan L. Yuille, Zongwei Zhou*. "Accurate Skeleton Segmentation Without Manual Contouring: A Study of 9,262 Subjects." Radiological Society of North America (RSNA), 2024.
23. **Wenxuan Li**, Junfei Xiao, Jie Liu, Yucheng Tang, Alan L. Yuille, Zongwei Zhou*. "Transitioning to Fully-Supervised Pre-Training with Large-Scale Radiology ImageNet for Improved AI Transferability in Three-Dimensional Medical Segmentation." Radiological Society of North America (RSNA), 2023.
24. Qi Chen, **Wenxuan Li**, Kai Ding, Heng Li, Alan Yuille, Zongwei Zhou*. "Physics-Informed Synthetic Tumor Modeling In CT for Training and Stress-Testing Target Delineation AI." AAPM Annual Meeting & Exhibition, 2026. (**Oral Presentation**)
25. Pedro R. A. S. Bassi, **Wenxuan Li**, Xinze Zhou, Kai Ding, Heng Li, Kang Wang, Yang Yang, Alan Yuille, Zongwei Zhou*. "Weakly Supervised Radiotherapy Segmentation from CT Reports: Reducing Voxel-Wise Labeling for Target Tumors and Organs-at-Risk." AAPM Annual Meeting & Exhibition, 2026. (**Snap Oral Presentation**)
26. Pedro R. A. S. Bassi, **Wenxuan Li**, Yucheng Tang, Alan Yuille, Zongwei Zhou*. "Benchmarking Auto-Contouring AI for Radiotherapy: Robustness, Calibration, and Failure Modes." AAPM Annual Meeting & Exhibition, 2026. (**Snap Oral Presentation**)

27. Qi Chen, **Wenxuan Li**, Xinze Zhou, Alan L. Yuille, Zongwei Zhou*. "How Many Annotations are Enough? Real-and-Synthetic Data Plateaus for <2 cm PDAC Detection on CT." Radiological Society of North America (RSNA), 2025. (**Oral Presentation**)
28. Qi Chen, **Wenxuan Li**, Xinze Zhou, Yefeng Zheng, Ling Shao, Alan L. Yuille, Zongwei Zhou*. "Turning CT Slices into A Story: How Video-Inspired AI is Helping Us Train Smarter Cancer Detectors." Radiological Society of North America (RSNA), 2025. (**Oral Presentation**)
29. Xinran Li, **Wenxuan Li**, Kang Wang, Yang Yang, Alan L. Yuille, Zongwei Zhou*. "ChatGPT-Guided Diffusion Generates Realistic Synthetic Tumors, Boosting Early CT Detection of Liver, Pancreas, and Kidney Cancers." Radiological Society of North America (RSNA), 2025.
30. Pedro R. A. S. Bassi, Jieneng Chen, **Wenxuan Li**, Zheren Zhu, Sergio Decherchi, Andrea Cavalli, Kang Wang, Yang Yang, Alan L. Yuille, Zongwei Zhou*. "16 Readily Available Radiology Reports Are Worth 1 Time-Consuming Voxel-Wise Annotation for Whole-Body CT Tumor Detection." Radiological Society of North America (RSNA), 2025.
31. Qi Chen, Zhekun Jiang, **Wenxuan Li**, Alan L. Yuille, Zongwei Zhou*. "AI Algorithms Can Assist Radiologists in Detection and Segmentation of Tumors in Uterus and Esophagus Through Non-Contrast Enhanced CT Images." Radiological Society of North America (RSNA), 2025. (**Oral Presentation**)
32. Xinze Zhou, Yuxuan Zhao, Qi Chen, **Wenxuan Li**, Dexin Yu, Alan L. Yuille, Zongwei Zhou*. "AbdomenAtlas 2.0: Comprehensive Lesion Annotations in Liver, Pancreas, Kidney, and Colon for 9,901 Three-Dimensional Computed Tomography." Radiological Society of North America (RSNA), 2025.
33. Pedro R. A. S. Bassi, **Wenxuan Li**, Yunhe Gao, Yousef Sadegheih, Afshin Bozorgpour, Dorit Merhof, Sergio Decherchi, Andrea Cavalli, Alan L. Yuille, Zongwei Zhou*. "A Touchstone of Medical Artificial Intelligence." Radiological Society of North America (RSNA), 2025. (**Oral Presentation**)
34. Pedro R. A. S. Bassi, **Wenxuan Li**, Yucheng Tang, Sergio Decherchi, Andrea Cavalli, Alan L. Yuille, Zongwei Zhou*. "Are We on the Right Way for Evaluating AI Algorithms for Medical Segmentation?" Radiological Society of North America (RSNA), 2024.
35. Pedro R. A. S. Bassi, **Wenxuan Li**, Maximilian Rokuss, Yannick Kirchhoff, Constantin Ulrich, Saikat Roy, Yucheng Tang, Sergio Decherchi, Andrea Cavalli, Klaus Maier-Hein, Fabian Isensee, Alan L. Yuille, Zongwei Zhou*. "Dataset Profile: Study Traceback, Error Detection, and Label Refinement for Multicenter Radiology Datasets." Radiological Society of North America (RSNA), 2024. (**Oral Presentation**)
36. Xinze Zhou, Jieneng Chen, Yucheng Chou, **Wenxuan Li**, Alan L. Yuille, Zongwei Zhou*. "Generalizing AI Algorithms to Multicenter Abdominal CT Scans for Pancreatic Tumor Detection." Radiological Society of North America (RSNA), 2024. (**Oral Presentation**)
37. Hualin Qiao, **Wenxuan Li**, Chongyu Qu, Tiezheng Zhang, Alan L. Yuille, Zongwei Zhou*. Towards A Comprehensive Taxonomy Of Common Errors In Anatomical Structure Segmentation Made By State-Of-The-Art Artificial Intelligence Models. Radiological Society of North America (RSNA), 2023. (**Oral Presentation**)

Preprints

38. **Wenxuan Li**, Pedro R. A. S. Bassi, Lizhou Wu, Xinze Zhou, Yuxuan Zhao, Qi Chen, Szymon Plotka, Tianyu Lin, Zheren Zhu, Marisa Martin, Justin Caskey, Shanshan Jiang, Xiaoxi Chen, Jaroslaw B. Ćwikla, Artur Sankowski, Yaping Wu, Sergio Decherchi, Andrea Cavalli, Chandana Lall, Cristian Tomasetti, Yaxing Guo, Xuan Yu, Yuqing Cai, Hualin Qiao, Jie Bao, Chenhan Hu, Ximing Wang, Arkadiusz Sitek, Kai Ding, Heng Li, Meiyun Wang*, Dexin Yu*, Guang Zhang*, Yang Yang*, Kang Wang*, Alan L. Yuille*, Zongwei Zhou*. "Early and Prediagnostic Detection of Pancreatic Cancer from Computed Tomography." arXiv preprint arXiv:2601.22134, 2026.

References

Alan L. Yuille — Bloomberg Distinguished Professor, Johns Hopkins University; ayuille1@jhu.edu
Zongwei Zhou — Assistant Professor, Johns Hopkins University; zzhou82@jh.edu