

CURRICULUM VITAE

Tianyi Zeng, PhD

Version Date: 9/28/2026

Contact Information:

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School: Yale School of Medicine

Education:

09/2012 - 06/2016 BE, Xi'an Jiaotong University, School of life sciences and technology, Xi'an, Shaanxi, China
09/2016 - 06/2021 PhD, University of Chinese Academy of Sciences, Shanghai Advanced Research Institute, Shanghai, Shanghai, China

Career/Academic Appointments:

09/2021 - 08/2024 Postdoctoral Associate, Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, CT
09/2021 - 08/2024 Postdoc Associate, Radiology and Biomedical Imaging, Yale University, New Haven, CT
09/2024 - 06/2027 Associate Research Scientist, Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, CT

Professional Honors & Recognition:

International/National/Regional

2021 Chinese Academy of Sciences President Award, Chinese Academy of Sciences
2021 Outstanding graduates of the University of Chinese Academy of Sciences, Chinese Academy of Sciences
2021 Silver Core Scholarship of SARI, Shanghai Advanced Research Institute
2022 2022 IEEE NSS/MIC/RTSD Trainee Grant, IEEE MIC committee
2023 2023 IEEE NSS/MIC/RTSD Trainee Grant, IEEE MIC committee
2023 Best paper award (2nd place), Machine Learning in Clinical Neuroimaging workshop
2024 Poster Award (Third Place), Society of Nuclear Medicine and Molecular Imaging
2024 2024 IEEE NSS/MIC/RTSD Trainee Grant, IEEE MIC committee

2025

2025 Freck Beekman Young Investigator Award, SNMMI

Grants/Clinical Trials History:

Current Grants

Agency: National Institutes of Health (NIH) – National Institute of Biomedical Imaging and Bioengineering (NIBIB)

I.D.#: R50EB038913

Title: Advanced PET Quantitative Reconstruction and Deep Learning Noise Reduction Algorithms for Receptor Occupancy Studies on Ultra-High-Performance Brain PET Systems

Role: Principal Investigator (PI)

Percent effort: N/A

Total costs: \$502,623.00

Project period: 09/10/2026 - 08/31/2029

Invited Speaking Engagements, Presentations & Workshops Not Affiliated With Yale:

International/National

1. "Supervised Deep Learning for PET Head Motion Correction". 2022 IEEE NSS/MIC/RTSD, Milan, Lombardy, November 2022. (Oral Presentation)
2. "Head Motion Gating based on built-in metric of markerless head motion tracking for brain PET". SNMMI 2023 Annual Meeting, Chicago, IL, June 2023. (Oral Presentation)
3. "PET head motion correction with markerless motion tracking device and deep learning". Brain Informatics 2023 workshop - IAIHI, Hoboken, NJ, August 2023. (Oral Presentation)
4. "Validation and application of markerless head motion tracking for a next-generation brain PET scanner". 2023 IEEE NSS MIC RTSD, Vancouver, BC, November 2023. (Oral Presentation)
5. "Markerless head motion tracking for ultra-high performance brain PET". SNMMI 2024 Annual Meeting, Toronto, ON, June 2024. (Poster Presentation)
6. "Evaluation of motion correction methods in ultra-high performance brain PET: A multi-tracer human study". 2025 SNMMI annual meeting, New Orleans, LA, June 2025. (Oral Presentation)
7. "Impact of Depth-of-Interaction and Spatially-Variant Point-Spread-Function Model on the Performance of Ultra-High Resolution Brain PET". 2026 IEEE NSS/MIC/RTSD, Yokohama, Kanagawa, November 2025. (Oral Presentation)

Peer-Reviewed Presentations Given at Meetings Not Affiliated With Yale:

International/National

1. **Zeng T.** Supervised Deep Learning for Head Motion Correction in PET. 2022 International Conference on Medical Image Computing and Computer Assisted Intervention, Singapore, September 2022. (Poster Presentation)
2. **Zeng T.** Supervised Deep Learning for PET Head Motion Correction. 2022 IEEE NSS/MIC/RTSD, Milan, Lombardy, November 2022. (Oral Presentation)

3. **Zeng T.** Head Motion Gating based on built-in metric of markerless head motion tracking for brain PET. SNMMI 2023 Annual Meeting, Chicago, IL, June 2023. (Oral Presentation)
4. **Zeng T.** Calibration and validation of markerless head motion tracking in next-generation dedicated brain PET system. SNMMI 2023 Annual Meeting, Chicago, IL, June 2023. (Poster Presentation)
5. **Zeng T.** Fast Reconstruction for Deep Learning PET Head Motion Correction. International Conference on Medical Image Computing and Computer Assisted Intervention, Vancouver, BC, October 2023. (Poster Presentation)
6. **Zeng T.** Validation and application of markerless head motion tracking for a next-generation brain PET scanner. 2023 IEEE NSS/MIC/RTSD, Vancouver, BC, November 2023. (Oral Presentation)
7. **Zeng T.** Large human cohort study of markerless head motion tracking for brain PET. 2024 IEEE NSS MIC RTSD, Tampa, FL, October 2024 - November 2024. (Poster Presentation)
8. **Zeng T.** Motion correction quality control of markerless head motion tracking for ultra-high performance brain PET. 2024 IEEE NSS MIC RTSD, Tampa, FL, October 2024 - November 2024. (Poster Presentation)
9. **Zeng T.** Impact of Depth-of-Interaction and Spatially-Variant Point-Spread-Function Model on the Performance of Ultra-High Resolution Brain PET. 2023 IEEE NSS MIC RTSD, Yokohama, Kanagawa, November 2025. (Oral Presentation)

Professional Service:

Peer Review Groups/Grant Study Sections

2024 - Present Reviewer, SNMMI, 2024 Medical & Science Student Research Grant

Journal Services

Reviewer

2021 - Present Reviewer, IEEE Transaction on Biomedical Engineering
 2021 - Present Reviewer, Physics in Medicine & Biology
 2022 - Present Reviewer, EJNMMI physics
 2024 - Present Reviewer, IEEE Transactions on Computational Imaging
 2024 - Present Reviewer, Medical Physics
 2025 - Present Reviewer, IEEE Transactions on Medical Imaging
 2025 - Present Reviewer, IEEE Transactions on Neural Networks and Learning Systems

Professional Organizations

IEEE 23rd International Symposium on Biomedical Imaging

2026 - Present Committee Member, IEEE 23rd International Symposium on Biomedical Imaging

Bibliography:

Peer-Reviewed Original Research

1. **Zeng T,** Yang H, Cao T, Hu L, Chu X, Lu X, Chen Q. [Timing calibration comparison research of integrated TOF-PET/MR]. Journal Of Biomedical Engineering 2019, 36: 1003-1011. [PMID: 31875375](#), [PMCID: PMC9935176](#), [DOI: 10.7507/1001-5515.201809044](#).

2. Kuang Z, Wang X, Ren N, Wu S, Gao J, **Zeng T**, Gao D, Zhang C, Sang Z, Hu Z, Du J, Liang D, Liu X, Zheng H, Yang Y. Design and performance of SIAT aPET: a uniform high-resolution small animal PET scanner using dual-ended readout detectors. *Physics In Medicine And Biology* 2020, 65: 235013. [PMID: 32992302](#), [DOI: 10.1088/1361-6560/abbc83](#).
3. **Zeng T**, Gao J, Gao D, Kuang Z, Sang Z, Wang X, Hu L, Chen Q, Chu X, Liang D, Liu X, Yang Y, Zheng H, Hu Z. A GPU-accelerated fully 3D OSEM image reconstruction for a high-resolution small animal PET scanner using dual-ended readout detectors. *Physics In Medicine And Biology* 2020, 65: 245007. [PMID: 32679581](#), [DOI: 10.1088/1361-6560/aba6f9](#).
4. Gao Y, Li Z, Song C, Li L, Li M, Schmall J, Liu H, Yuan J, Wang Z, **Zeng T**, Hu L, Chen Q, Zhang Y. Automatic rat brain image segmentation using triple cascaded convolutional neural networks in a clinical PET/MR. *Physics In Medicine And Biology* 2021, 66: 04nt01. [PMID: 33527911](#), [DOI: 10.1088/1361-6560/abd2c5](#).
5. **Zeng T**, Zheng J, Xia X, Chen X, Wang B, Zhang S, Chandler A, Cao T, Hu L, Chen Q, Chu X. Design and system evaluation of a dual-panel portable PET (DP-PET). *EJNMMI Physics* 2021, 8: 47. [PMID: 34117943](#), [PMCID: PMC8197684](#), [DOI: 10.1186/s40658-021-00392-5](#).
6. Gao D, Zhang X, Zhou C, Fan W, **Zeng T**, Yang Q, Yuan J, He Q, Liang D, Liu X, Yang Y, Zheng H, Hu Z. MRI-aided kernel PET image reconstruction method based on texture features. *Physics In Medicine And Biology* 2021, 66: 15nt03. [PMID: 34192685](#), [DOI: 10.1088/1361-6560/ac1024](#).
7. Kuang Z, Wang X, Ren N, Wu S, **Zeng T**, Niu M, Cong L, Sang Z, Liu Z, Sun T, Hu Z, Liang D, Liu X, Zheng H, Yang Y. Physical and imaging performance of SIAT aPET under different energy windows and timing windows. *Medical Physics* 2022, 49: 1432-1444. [PMID: 35049067](#), [DOI: 10.1002/mp.15455](#).
8. Liefbrig E, **Zeng T**, Zhang J, Fang X, Revilla E, Lu Y, Onofrey J. Multi-tracer Deep Learning for PET Head Motion Correction. 2022, 00: 1-4. [DOI: 10.1109/nss/mic44845.2022.10399143](#).
9. Liefbrig E, **Zeng T**, Zhang J, Fontaine K, Fang X, Revilla E, Lu Y, Onofrey J. Multi-Task Deep Learning and Uncertainty Estimation for Pet Head Motion Correction. 2011 IEEE International Symposium On Biomedical Imaging: From Nano To Macro 2023, 00: 1-5. [PMID: 38111738](#), [PMCID: PMC10725741](#), [DOI: 10.1109/isbi53787.2023.10230791](#).
10. Kuang Z, Sang Z, Ren N, Wang X, **Zeng T**, Wu S, Niu M, Cong L, Kinyanjui S, Chen Q, Tie C, Liu Z, Sun T, Hu Z, Du J, Li Y, Liang D, Liu X, Zheng H, Yang Y. Development and performance of SIAT bPET: a high-resolution and high-sensitivity MR-compatible brain PET scanner using dual-ended readout detectors. *European Journal Of Nuclear Medicine And Molecular Imaging* 2023, 51: 346-357. [PMID: 37782321](#), [DOI: 10.1007/s00259-023-06458-z](#).
11. Liefbrig E, Zhang J, **Zeng T**, Cai Z, You C, Lu Y, Onofrey J. Image Intensity Normalization Benefits Deep Learning Brain PET Motion Correction. 2023, 00: 1-1. [DOI: 10.1109/nssmicrtsd49126.2023.10338194](#).
12. Khatrar N, Toyonaga T, **Zeng T**, Li Y, Li H, Carson R. Initial human evaluation of the performance of the NeuroEXPLORER, a next-generation ultra-high performance brain PET imager. 2023, 00: 1-1. [DOI: 10.1109/nssmicrtsd49126.2023.10338626](#).
13. **Zeng T**, Chen F, Zhang J, Liefbrig E, Cai Z, Naganawa M, You C, Lu Y, Onofrey J. Fast Reconstruction Enhances Deep Learning PET Head Motion Correction. 2023, 00: 1-1. [DOI: 10.1109/nssmicrtsd49126.2023.10338189](#).

14. **Zeng T**, Wang S, Fontaine K, Jiang W, Zhang J, Mulnix T, Gravel P, Volpi T, Gallezot J, Yang Z, Zhang X, Sun X, Hu L, Li H, Carson R. Validation and application of markerless head motion tracking for a next-generation brain PET scanner. 2023, 00: 1-1. [DOI: 10.1109/nssmicrtsd49126.2023.10338275](https://doi.org/10.1109/nssmicrtsd49126.2023.10338275).
15. **Zeng T**, You C, Cai Z, Liefbrig E, Zhang J, Chen F, Lu Y, Onofrey J. Teacher's PET: Semi-supervised Deep Learning for PET Head Motion Correction. 2023, 00: 1-1. [DOI: 10.1109/nssmicrtsd49126.2023.10337834](https://doi.org/10.1109/nssmicrtsd49126.2023.10337834).
16. Zhang J, Liefbrig E, **Zeng T**, You C, Cai Z, Toyonaga T, Lu Y, Onofrey J. Spatial Normalization to Improve Deep Learning-based Head Motion Correction in PET. 2023, 00: 1-1. [DOI: 10.1109/nssmicrtsd49126.2023.10338387](https://doi.org/10.1109/nssmicrtsd49126.2023.10338387).
17. Cai Z, Xin J, Dong S, You C, Shi P, **Zeng T**, Zhang J, Onofrey J, Zheng N, Duncan J. Unsupervised Domain Adaptation by Cross-Prototype Contrastive Learning for Medical Image Segmentation. 2023, 00: 819-824. [DOI: 10.1109/bibm58861.2023.10386055](https://doi.org/10.1109/bibm58861.2023.10386055).
18. **Zeng T**, Lu Y, Jiang W, Zheng J, Zhang J, Gravel P, Wan Q, Fontaine K, Mulnix T, Jiang Y, Yang Z, Revilla E, Naganawa M, Toyonaga T, Henry S, Zhang X, Cao T, Hu L, Carson R. Markerless head motion tracking and event-by-event correction in brain PET. Physics In Medicine And Biology 2023, 68: 245019. [PMID: 37983915](https://pubmed.ncbi.nlm.nih.gov/37983915/), [PMCID: PMC10713921](https://pubmed.ncbi.nlm.nih.gov/PMC10713921/), [DOI: 10.1088/1361-6560/ad0e37](https://doi.org/10.1088/1361-6560/ad0e37).
19. Liu J, Ren N, **Zeng T**, Kuang Z, Zhang Q, Wang X, Liu Z, Zheng H, Liang D, Yang Y, Hu Z. The Software System of a Dedicated Brain PET Scanner Using Dual-Ended Readout Detectors With High-DOI Resolution. IEEE Transactions On Radiation And Plasma Medical Sciences 2024, 8: 655-663. [DOI: 10.1109/trpms.2024.3370308](https://doi.org/10.1109/trpms.2024.3370308).
20. Li H, Badawi R, Cherry S, Fontaine K, He L, Henry S, Hillmer A, Hu L, Khattar N, Leung E, Li T, Li Y, Liu C, Liu P, Lu Z, Majewski S, Matuskey D, Morris E, Mulnix T, Omidvari N, Samanta S, Selfridge A, Sun X, Toyonaga T, Volpi T, **Zeng T**, Jones T, Qi J, Carson R. Performance Characteristics of the NeuroEXPLORER, a Next-Generation Human Brain PET/CT Imager. Journal Of Nuclear Medicine 2024, 65: jnumed.124.267767. [PMID: 38871391](https://pubmed.ncbi.nlm.nih.gov/38871391/), [PMCID: PMC11294061](https://pubmed.ncbi.nlm.nih.gov/PMC11294061/), [DOI: 10.2967/jnumed.124.267767](https://doi.org/10.2967/jnumed.124.267767).
21. Tan W, Wang Z, Zeng X, Boccia A, Wang X, Li Y, Li Y, Fung E, Qi J, **Zeng T**, Gupta A, Goldan A. High-resolution motion compensation for brain PET imaging using real-time electromagnetic motion tracking. Medical Physics 2024, 52: 201-218. [PMID: 39422495](https://pubmed.ncbi.nlm.nih.gov/39422495/), [PMCID: PMC11716701](https://pubmed.ncbi.nlm.nih.gov/PMC11716701/), [DOI: 10.1002/mp.17437](https://doi.org/10.1002/mp.17437).
22. **Zeng T**, Zhang J, Volpi T, Gallezot J, Fontaine K, Khattar N, Jiang W, Yang Z, Wan Q, Wang S, Li T, Zhang X, Hu L, Carson R. Motion correction quality control of markerless head motion tracking for ultrahigh performance brain PET. 2024, 00: 1-2. [DOI: 10.1109/nss/mic/rtsd57108.2024.10658040](https://doi.org/10.1109/nss/mic/rtsd57108.2024.10658040).
23. Volpi T, **Zeng T**, Khattar N, Toyonaga T, Martins S, Mulnix T, Fontaine K, Gallezot J, Carson R. Image-Derived Input Functions on an Ultra-High Performance Brain PET Scanner: Minimizing the Carotid Partial Volume Effect. 2024, 00: 1-1. [DOI: 10.1109/nss/mic/rtsd57108.2024.10658264](https://doi.org/10.1109/nss/mic/rtsd57108.2024.10658264).
24. **Zeng T**, Zhang J, Gallezot J, Fontaine K, Gravel P, Jiang W, Mulnix T, Yang Z, Zhang X, Hu L, Carson R. Large human cohort study of markerless head motion tracking for brain PET. 2024, 00: 1-2. [DOI: 10.1109/nss/mic/rtsd57108.2024.10656091](https://doi.org/10.1109/nss/mic/rtsd57108.2024.10656091).
25. Zhang J, Sun C, Volpi T, **Zeng T**, Fontaine K, Du Y, Toyonaga T, Onofrey J, Lu Y, Carson R. Data-driven non-rigid motion detection and correction for NeuroEXPLORER. 2024, 00: 1-2. [DOI: 10.1109/nss/mic/rtsd57108.2024.10658289](https://doi.org/10.1109/nss/mic/rtsd57108.2024.10658289).
26. Fontaine K, Gallezot J, Zhang J, He L, Gravel P, **Zeng T**, Li T, Li Y, Leung E, Sun X, Guo L, Mulnix T, Toyonaga T, Lu Y, Li H, Badawi R, Qi J, Carson R. MOLAR-NX: building a PET reconstruction

- framework for exploring the novel features provided by the NeuroEXPLORER. 2024, 00: 1-2. [DOI: 10.1109/nss/mic/rtsd57108.2024.10655187](https://doi.org/10.1109/nss/mic/rtsd57108.2024.10655187).
27. Cai Z, **Zeng T**, Zhang J, Lieffrig E, Fontaine K, You C, Revilla E, Duncan J, Xin J, Lu Y, Onofrey J. PET Head Motion Estimation Using Supervised Deep Learning With Attention. *IEEE Transactions On Medical Imaging* 2025, 45: 1265-1278. [PMID: 41082441](https://pubmed.ncbi.nlm.nih.gov/41082441/), [PMCID: PMC13097669](https://pubmed.ncbi.nlm.nih.gov/PMC13097669/), [DOI: 10.1109/tmi.2025.3620714](https://doi.org/10.1109/tmi.2025.3620714).
 28. Volpi T, Toyonaga T, Khattar N, Gallezot J, Naganawa M, Vanderlinden G, Honhar P, **Zeng T**, Fontaine K, Mulnix T, Hu L, Sun X, Henry S, Matuskey D, Radhakrishnan R, Guo L, Hu Y, Zhang J, Zheng X, Nabulsi N, Huang Y, Badawi R, Cherry S, Hillmer A, Jones T, Liu C, Morris E, Qi J, Li H, Carson R. Exceptional brain PET images from the NeuroEXPLORER: scans with targeted radiopharmaceuticals and comparison to HRRT. *European Journal Of Nuclear Medicine And Molecular Imaging* 2025, 53: 2110-2121. [PMID: 41177836](https://pubmed.ncbi.nlm.nih.gov/41177836/), [PMCID: PMC12860869](https://pubmed.ncbi.nlm.nih.gov/PMC12860869/), [DOI: 10.1007/s00259-025-07605-4](https://doi.org/10.1007/s00259-025-07605-4).
 29. Najmaoui Y, Fontaine K, Fontaine D, Zhang J, **Zeng T**, Volpi T, Chemli Y, Gallezot J, Tétrault M, Carson R, Fakhri G, Marin T. YRT-PET-NX: Development of a Plugin for an Open-Source PET Reconstruction Platform to Support the NeuroEXPLORER. 2025, 00: 1-2. [DOI: 10.1109/nss/mic/rtsd57106.2025.11287275](https://doi.org/10.1109/nss/mic/rtsd57106.2025.11287275).
 30. Zhang J, Fontaine K, Volpi T, **Zeng T**, Du Y, Sun C, Lu Y, Toyonaga T, Onofrey J, Carson R. Cranberry: Combined Rigid and Nonrigid Event-by-Event Motion Correction at Yale. 2025 IEEE Nuclear Science Symposium (NSS), Medical Imaging Conference (MIC) And Room Temperature Semiconductor Detector Conference (RTSD) 2025, 1-1. [DOI: 10.1109/nss/mic/rtsd57106.2025.11286359](https://doi.org/10.1109/nss/mic/rtsd57106.2025.11286359).
 31. **Zeng T**, Najmaoui Y, Zhang J, Fontaine K, Hu Y, Chemli Y, Gallezot J, Sun C, Lu Y, Fakhri G, Carson R, Marin T. Impact of Depth-of-Interaction and Spatially-Variant Point-Spread-Function Model on the Performance of Ultra-High Resolution Brain PET. 2025 IEEE Nuclear Science Symposium (NSS), Medical Imaging Conference (MIC) And Room Temperature Semiconductor Detector Conference (RTSD) 2025, 1-2. [DOI: 10.1109/nss/mic/rtsd57106.2025.11287015](https://doi.org/10.1109/nss/mic/rtsd57106.2025.11287015).
 32. Hu Y, Zhang J, Gallezot J, Volpi T, **Zeng T**, Toyonaga T, Carson R. Iterative Reconstruction Performance on the NeuroEXPLORER: Evaluation with Static and Dynamic Human Imaging. *IEEE Transactions On Radiation And Plasma Medical Sciences* 2026, PP: 1-1. [DOI: 10.1109/trpms.2026.3693626](https://doi.org/10.1109/trpms.2026.3693626).
 33. **Zeng T**, Zhang J, Gallezot J, Fontaine K, Jiang W, Gravel P, Mulnix T, Naganawa M, Yang Z, Zhang X, Wang S, Sun X, Hu L, Carson R. Optimization of brain PET markerless head motion correction in a large human cohort. *EJNMMI Physics* 2026, 13: 76. [PMID: 42213388](https://pubmed.ncbi.nlm.nih.gov/42213388/), [PMCID: PMC13433684](https://pubmed.ncbi.nlm.nih.gov/PMC13433684/), [DOI: 10.1186/s40658-026-00885-1](https://doi.org/10.1186/s40658-026-00885-1).
 34. Zhang J, Fontaine K, Li T, Gravel P, Toyonaga T, Hu Y, Gallezot J, **Zeng T**, Volpi T, Lu Y, Marin T, Qi J, Carson R. Characterization and Initial Optimization of Reconstruction Performance for Detector Crosstalk of Ultra-high Performance Brain PET Imager. *IEEE Transactions On Radiation And Plasma Medical Sciences* 2026, PP: 1-1. [DOI: 10.1109/trpms.2026.3698769](https://doi.org/10.1109/trpms.2026.3698769).

Chapters

1. **Zeng T**, Zhang J, Revilla E, Lieffrig E, Fang X, Lu Y, Onofrey J. Supervised Deep Learning for Head Motion Correction in PET. *Lecture Notes In Computer Science* 2022, 13434: 194-203. [PMID: 38107622](https://pubmed.ncbi.nlm.nih.gov/38107622/), [PMCID: PMC10725740](https://pubmed.ncbi.nlm.nih.gov/PMC10725740/), [DOI: 10.1007/978-3-031-16440-8_19](https://doi.org/10.1007/978-3-031-16440-8_19).

2. **Zeng T**, Zhang J, Lieffrig E, Cai Z, Chen F, You C, Naganawa M, Lu Y, Onofrey J. Fast Reconstruction for Deep Learning PET Head Motion Correction. Lecture Notes In Computer Science 2023, 14229: 710-719. [PMID: 38174207](#), [PMCID: PMC10758999](#), [DOI: 10.1007/978-3-031-43999-5_67](#).
3. Cai Z, **Zeng T**, Lieffrig E, Zhang J, Chen F, Toyonaga T, You C, Xin J, Zheng N, Lu Y, Duncan J, Onofrey J. Cross-Attention for Improved Motion Correction in Brain PET. Lecture Notes In Computer Science 2023, 14312: 34-45. [PMID: 38174216](#), [PMCID: PMC10758996](#), [DOI: 10.1007/978-3-031-44858-4_4](#).
4. Cai Z, Xin J, **Zeng T**, Dong S, Zheng N, Duncan J. Class-Aware Mutual Mixup with Triple Alignments for Semi-supervised Cross-Domain Segmentation. Lecture Notes In Computer Science 2024, 15008: 68-79. [DOI: 10.1007/978-3-031-72111-3_7](#).