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Publications *(* indicates equal contribution)*

[A] **Jason K. Adhinarta***, Yutian Fan*, Michael Lin*, Richard Ren*, Micaela Roth*, Ayal Yakobe*, Shulin Zhang*, Rafael Yuste, Donglai Wei. **VesicleEM: A Comprehensive Vesicle Analysis Toolbox for Volumetric Electron Microscopy**. Manuscript in preparation.

[B] Shulin Zhang, Netanel Ofer, Wataru Yamomoto, Richard Schalek, Yuelong Wu, Christoph Dupre, **Jason K. Adhinarta**, Yutian Fan, Michael Lin, Micaela Roth, Ben Cox, Celina Juliano, Donglai Wei, Jeff Lichtman, Rafael Yuste. **Connectomic analysis of the *Hydra vulgaris* endoderm: cell types and vesicles**. Manuscript in preparation.

[C] **Jason K. Adhinarta***, Jizheng Dong*, Tianxiao He*, Junxiang Huang*, Daniel Sprague*, Jia Wan, Hyun Jee Lee, Zikai Yu, Hang Lu, Eviatar Yemini, Saul Kato, Erdem Varol, Donglai Wei. **WormND: A Benchmark for Extracting Whole-Brain Neural Dynamics of *C. elegans* at the Neuron Resolution**. Manuscript under revision.

[D] Shixuan Gu, **Jason K. Adhinarta**, Mikhail Bessmeltsev, Jiancheng Yang, Jessica Zhang, Wenjie Yin, Daniel Berger, Jeff W. Lichtman, Hanspeter Pfister, Donglai Wei. **Frenet-Serret Frame-based Decomposition for Part Segmentation of 3D Curvilinear Structures**. Under review at IEEE Transactions on Medical Imaging. arXiv:2404.14435

[E] Jia Wan, Wanhua Li, **Jason K. Adhinarta**, Atmadeep Banerjee, Evelina Sjostedt, Jingpeng Wu, Jeff Lichtman, Hanspeter Pfister, Donglai Wei. **TriSAM: Tri-Plane SAM for zero-shot cortical blood vessel segmentation in VEM images**. Under review at IEEE Journal of Biomedical and Health Informatics. arXiv:2401.13961v4

[F] Xiaomeng Han, Xiaotang Lu, Peter H. Li, Shuohong Wang, Richard Schalek, Yaron Meirovitch, Zudi Lin, **Jason K. Adhinarta**, Daniel Berger, Yuelong Wu, Tao Fang, Elif S. Meral, Shadnan Asraf, Hidde Ploegh, Hanspeter Pfister, Donglai Wei, Viren Jain, James S. Trimmer, Jeff W. Lichtman. **Multiplexed Volumetric CLEM enabled by antibody derivatives provides new insights into the cytology of the mouse cerebellar cortex**. Nature Communications 2024. doi:10.1038/s41467-024-50411-z PMID:39103318

[G] Jiancheng Yang, Ekaterina Sedykh, **Jason K. Adhinarta**, Hieu Le, Pascal Fua. **Generating Anatomically Accurate Heart Structures via Neural Implicit Fields**. Medical Image Computing and Computer-Assisted Intervention 2024. doi:10.1007/978-3-031-72378-0_25

[H] Liang Jin, Shixuan Gu, Donglai Wei, **Jason K. Adhinarta**, Kaiming Kuang, Yongjie J. Zhang, Hanspeter Pfister, Bingbing Ni, Jiancheng Yang, Ming Li. **RibSeg v2: A Large-scale Benchmark for Rib Labeling and Anatomical Centerline Extraction**. IEEE Transactions on Medical Imaging 2023. doi:10.1109/TMI.2023.3313627 PMID:37695967

[I] **Jason K. Adhinarta**, Eric Jobiliong, Muhandis Shiddiq, Henri P. Uranus and Eden Steven. **Light storage and thermal-assisted switching of $SrAl_2O_4$:Eu^{2+}, Dy^{3+}**. Journal of Nonlinear Optical Physics & Materials 2019. doi:10.1142/S0218863519500425

Patents

[J] Eden Steven, Ray A. O. Sinurat, Alvius Tinambunan, Edmund F. Anderson, Calvin, Andrew D. Widjaja, Josavan Ezekhiel, **Jason K. Adhinarta**. **A Robotic Method of Monitoring, Hydrating, Training, and Treating Bacterial or Fungal Infections of New-growth Fungal Cultures to Produce Densified Sheet-like Lateral Networks of Fungal Materials**. PDKI:P00202009416. Patent pending, submitted to Indonesian patent registry in 2020