Resource Summary Report

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VisuAlign

RRID:SCR_017978
Type: Tool

Proper Citation

VisuAlign (RRID:SCR_017978)

Resource Information

URL: http://www.nitrc.org/projects/visualign/

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Description: Software tool for applying user guided nonlinear refinements (inplane) to existing, affine 2D-to-3D registration. Used for precise quantitative analysis of residual anatomical variability among test subjects after registration with QuickNII. VisuAlign is part of the QUINT workflow.

Resource Type: data analysis software, data processing software, image analysis software, registration software, software application, software resource

Defining Citation: PMID:41069395

Keywords: Nonlinear refinement, 2D, 3D, registration, quantitative analysis, residual anatomical variability

Funding: European Union’s Horizon 2020 Framework Programme for Research and Innovation under the Framework Partnership Agreement No. 650003 (HBP FPA) and the European Union’s Horizon Europe Programme for Research Infrastructures Grant Agreement No. 101147319 (EBRAINS 2.0).

Availability: Free, Available for download, Freely available

Resource Name: VisuAlign

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Alternate URLs: https://visualign.readthedocs.io; https://github.com/Tevemadar/VisuAlign, https://github.com/Neural-Systems-at-UIO/VisuAlign

Record Creation Time: 20220129T080338+0000

Record Last Update: 20260903T235439+0000

Ratings and Alerts

No rating or validation information has been found for VisuAlign.

No alerts have been found for VisuAlign.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 41 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Alexandersen CG, et al. (2026) Rise-and-fall dynamics reveal a molecular and cellular vulnerability axis in prion-like ?-synuclein propagation. bioRxiv : the preprint server for biology.

Tieze SM, et al. (2026) Deficient de-S-acylation in aging and CLN1 contributes to lyso-mitochondrial dysfunction, lipid dyshomeostasis, and resultant lipofuscin biogenesis. Research square.

Richards BK, et al. (2026) Efferent projections of topographically distinct relaxin family peptide receptor-3 (RXFP3) lateral hypothalamus/zona incerta cells. Brain structure & function, 231(7).

Lou M, et al. (2026) Relationships between phenotypic differences in punishment behaviour and prefrontal cortex network engagement. Neurobiology of learning and memory, 225, 108167.

Rajan R, et al. (2026) Visual experience exerts an instructive role on cortical feedback inputs to the primary visual cortex. Current biology : CB, 36(4), 1033.

Carey H, et al. (2025) DeMBA: a developmental atlas for navigating the mouse brain in space and time. Nature communications, 16(1), 8108.

Moan K, et al. (2025) Differences in Cajal-Retzius Cell Density and Postnatal Persistence Across Cortical Areas Revealed by a Novel Intersectional Genetic Labeling Approach. The Journal of comparative neurology, 533(11), e70106.

Kasen A, et al. (2025) Seed structure and phosphorylation in the fuzzy coat impact tau seeding competency. Nature communications, 16(1), 9240.

Messore F, et al. (2025) An orexin-sensitive subpopulation of layer 6 neurons regulates cortical excitability and anxiety behaviour. Translational psychiatry, 15(1), 147.

Sungeelee S, et al. (2025) A genetically defined pontine nucleus essential for ingestion in mice. Proceedings of the National Academy of Sciences of the United States of America, 122(29), e2411174122.

Soto-Avellaneda A, et al. (2025) Helicobacter pylori infection and ?-synuclein pathology drive parallel neurodegenerative pathways in the substantia nigra. Journal of neuroinflammation, 22(1), 293.

Huang ML, et al. (2025) Misclassification in memory modification in AppNL-G-F knock-in mouse model of Alzheimer's disease. eLife, 14.

Tieze SM, et al. (2025) Molecular elucidation of brain lipofuscin in aging and Neuronal Ceroid Lipofuscinosis. Research square.

Mohar B, et al. (2025) DELTA: a method for brain-wide measurement of synaptic protein turnover reveals localized plasticity during learning. Nature neuroscience, 28(5), 1089.

Manjila SB, et al. (2025) Brain-wide connectivity and novelty response of the dorsal endopiriform nucleus in mice. Cell reports, 44(7), 115827.

Puchades MA, et al. (2025) Software and pipelines for registration and analyses of rodent brain image data in reference atlas space. Frontiers in neuroinformatics, 19, 1629388.

Kim J, et al. (2024) Bidirectional Control of Emotional Behaviors by Excitatory and Inhibitory Neurons in the Orbitofrontal Cortex. Experimental neurobiology, 33(5), 225.

Vadisiute A, et al. (2024) Glial cells undergo rapid changes following acute chemogenetic manipulation of cortical layer 5 projection neurons. Communications biology, 7(1), 1286.

Vatsa N, et al. (2024) Network analysis of ?-synuclein pathology progression reveals p21-activated kinases as regulators of vulnerability. bioRxiv : the preprint server for biology.

Jiang Z, et al. (2024) Dopaminergic Neurons in Zona Incerta Drives Appetitive Self-Grooming. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(36), e2308974.