

Resource Summary Report

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AFQ: Automated Fiber Quatification

RRID:SCR_014546

Type: Tool

Proper Citation

AFQ: Automated Fiber Quatification (RRID:SCR_014546)

Resource Information

URL: <https://github.com/jyeatman/AFQ>

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Description: A framework for generating Tract Profiles of tissue properties for major fiber tracts in healthy and diseased brains. Online documentation can be found at: <https://github.com/yeatmanlab/AFQ/wiki>. AFQ has been tested for MATLAB r2009b through MATLAB r2014b. It requires functions from the MATLAB stats toolbox, vistasoft and SPM.

Abbreviations: AFQ

Resource Type: data analytics software, software resource, software application

Defining Citation: [PMID:23166771](#)

Keywords: DTI

Availability: Available under GNU General Public License

Resource Name: AFQ: Automated Fiber Quatification

Resource ID: SCR_014546

Old URLs: <https://github.com/yeatmanlab/AFQ>

License: GNU General Public License

Record Creation Time: 20220129T080321+0000

Record Last Update: 20260813T055107+0000

Ratings and Alerts

No rating or validation information has been found for AFQ: Automated Fiber Quatification.

No alerts have been found for AFQ: Automated Fiber Quatification.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 22 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Wang M, et al. (2025) White matter microstructural alterations and brain metabolism distributions in Parkinson's disease. *Brain imaging and behavior*, 19(4), 938.

Li J, et al. (2024) Neuroplasticity of the white matter tracts underlying recovery of diarrhea-predominant irritable bowel syndrome following acupuncture treatment. *Frontiers in neuroscience*, 18, 1383041.

Li X, et al. (2024) Tract-Specific White Matter Hyperintensities Disrupt Brain Networks and Associated With Cognitive Impairment in Mild Traumatic Brain Injury. *Human brain mapping*, 45(17), e70050.

Hu L, et al. (2023) Different impulse control disorder evolution patterns and white matter microstructural damage in the progression of Parkinson's disease. *Frontiers in aging neuroscience*, 15, 1260630.

Suo X, et al. (2023) Characterizing White Matter Changes along Fibers in Treatment-Naive Pediatric Posttraumatic Stress Disorder. *Depression and anxiety*, 2023, 9020854.

Hong EH, et al. (2022) Quantitative evaluation of intraorbital optic nerve in optic atrophy using diffusion tensor imaging. *Scientific reports*, 12(1), 12103.

Wang J, et al. (2021) Tractography in Type 2 Diabetes Mellitus With Subjective Memory Complaints: A Diffusion Tensor Imaging Study. *Frontiers in neuroscience*, 15, 800420.

Wang Y, et al. (2021) A large-scale structural and functional connectome of social mentalizing. *NeuroImage*, 236, 118115.

Moon Y, et al. (2021) In vivo Analysis of Normal Optic Nerve in an Elderly Population Using Diffusion Magnetic Resonance Imaging Tractography. *Frontiers in neurology*, 12, 680488.

Meng L, et al. (2021) Long-term tract-specific white matter microstructural changes after acute stress. *Brain imaging and behavior*, 15(4), 1868.

Zheng Y, et al. (2021) Diffusion property and functional connectivity of superior longitudinal fasciculus underpin human metacognition. *Neuropsychologia*, 156, 107847.

Torres-Prioris MJ, et al. (2020) Neurocognitive signatures of phonemic sequencing in expert backward speakers. *Scientific reports*, 10(1), 10621.

Ho TC, et al. (2020) Sex differences in the effects of gonadal hormones on white matter microstructure development in adolescence. *Developmental cognitive neuroscience*, 42, 100773.

Wang Y, et al. (2020) Multimodal mapping of the face connectome. *Nature human behaviour*, 4(4), 397.

Walker JC, et al. (2020) Study Protocol for Teen Inflammation Glutamate Emotion Research (TIGER). *Frontiers in human neuroscience*, 14, 585512.

Li J, et al. (2020) Evidence of motor injury due to damaged corticospinal tract following acute hemorrhage in the basal ganglia region. *Scientific reports*, 10(1), 16346.

Kreilkamp BAK, et al. (2019) Comparison of manual and automated fiber quantification tractography in patients with temporal lobe epilepsy. *NeuroImage. Clinical*, 24, 102024.

Sarkar A, et al. (2019) Computational optimization of in vitro parameters for di-(2-ethylhexyl) phthalate production from *Anabaena circinalis*. *Journal of cellular biochemistry*, 120(1), 790.

Keller SS, et al. (2017) Preoperative automated fibre quantification predicts postoperative seizure outcome in temporal lobe epilepsy. *Brain : a journal of neurology*, 140(1), 68.

Sommer S, et al. (2017) Fiber up-sampling and quality assessment of tractograms - towards quantitative brain connectivity. *Brain and behavior*, 7(1), e00588.