

Resource Summary Report

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iELVis

RRID:SCR_016109

Type: Tool

Proper Citation

iELVis (RRID:SCR_016109)

Resource Information

URL: <http://ielvis.pbworks.com/w/page/116347253/FrontPage>

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Description: Software toolkit consisting of MATLAB and Bash scripts for intracranial electrode localization/visualization. It maps electrodes to various anatomical and functional atlases, and overlays electrode data over functional neuroimaging data. Software for intracranial electrode localization and visualization.

Synonyms: iELVis (intracranial electrode visualization), Intracranial EElectrode VISualization

Resource Type: data processing software, data visualization software, software application, software resource

Defining Citation: [PMID:28192130](#)

Keywords: electrode, stimulus, visualization, brain, neuroimaging, intracranial, localization, anatomy, functional, BRAIN Initiative

Funding: Natural Sciences and Engineering Research Council of Canada RGPIN-2014-04465;

Page and Otto Marx Jr. Foundation ;

Swiss National Science Foundation P300P3_148388;

Swiss National Science Foundation PBGEP3_139829

Availability: Open source, Free, Available for download

Resource Name: iELVis

Resource ID: SCR_016109

Alternate URLs: <https://github.com/iELVis/iELVis>

License: GPL-3.0

Record Creation Time: 20220129T080328+0000

Record Last Update: 20260903T235334+0000

Ratings and Alerts

No rating or validation information has been found for iELVis.

No alerts have been found for iELVis.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 47 mentions in open access literature.

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

Chericoni A, et al. (2026) Neural geometry in the human hippocampus enables generalization across spatial position and gaze. ArXiv.

Parvizi J, et al. (2026) Functional Architecture of the Human Insula Revealed by Causal Intracranial Mapping. Research square.

Casile A, et al. (2025) Neural correlates of minimal recognizable configurations in the human brain. Cell reports, 44(3), 115429.

Qiao X, et al. (2025) Exploring the neural mechanisms underlying cooperation and competition behavior: Insights from stereo-electroencephalography hyperscanning. iScience, 28(2), 111506.

Mishra A, et al. (2025) Hippocampal and cortical high-frequency oscillations orchestrate human semantic networks during word list memory. iScience, 28(4), 112171.

Kauvar I, et al. (2025) Conserved brain-wide emergence of emotional response from sensory experience in humans and mice. Science (New York, N.Y.), 388(6750), eadt3971.

Jourahmad Z, et al. (2025) Human neuronal firing is modulated by the frequency of local field potential oscillations. bioRxiv : the preprint server for biology.

Kang JU, et al. (2025) Parietal cortex is recruited by frontal and cingulate areas to support action monitoring and updating during stopping. bioRxiv : the preprint server for biology.

Assi JY, et al. (2025) Insular routing to orbitofrontal cortex enables breathing awareness. medRxiv : the preprint server for health sciences.

Wang S, et al. (2025) Revealing the co-existence of written and spoken language coding neural populations in the visual word form area. *Imaging neuroscience* (Cambridge, Mass.), 3.

Schwab-Mohamed I, et al. (2025) Bridging verbal coordination and neural dynamics. *eLife*, 13.

Seedat A, et al. (2025) Open multi-center intracranial electroencephalography dataset with task probing conscious visual perception. *Scientific data*, 12(1), 854.

Lyu D, et al. (2024) Causal Cortical and Thalamic Connections in the Human Brain. *bioRxiv* : the preprint server for biology.

Te Rietmolen N, et al. (2024) Speech and music recruit frequency-specific distributed and overlapping cortical networks. *eLife*, 13.

Zhu H, et al. (2024) Spectral-switching analysis reveals real-time neuronal network representations of concurrent spontaneous naturalistic behaviors in human brain. *bioRxiv* : the preprint server for biology.

Parvizi J, et al. (2024) Causal Cortical and Thalamic Connections in the Human Brain. *Research square*.

Cross ZR, et al. (2024) The development of aperiodic neural activity in the human brain. *bioRxiv* : the preprint server for biology.

Raghavan VS, et al. (2024) Improving auditory attention decoding by classifying intracranial responses to glimpsed and masked acoustic events. *Imaging neuroscience* (Cambridge, Mass.), 2.

Bartoli E, et al. (2024) Default mode network electrophysiological dynamics and causal role in creative thinking. *Brain : a journal of neurology*, 147(10), 3409.

Chen YY, et al. (2023) Individual-specific memory reinstatement patterns within human face-selective cortex. *bioRxiv* : the preprint server for biology.