

Resource Summary Report

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Optseq

RRID:SCR_014363

Type: Tool

Proper Citation

Optseq (RRID:SCR_014363)

Resource Information

URL: <http://surfer.nmr.mgh.harvard.edu/optseq/>

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Description: Software tool for automatically scheduling events for rapid-presentation event-related (RPER) fMRI experiments (the schedule is the order and timing of events). Events in RPER are presented closely enough in time that their hemodynamic responses will overlap. This requires that the onset times of the events be jittered in order to remove the overlap from the estimate of the hemodynamic response. RPER is highly resistant to habituation, expectation, and set because the subject does not know when the next stimulus will appear or which stimulus type it will be.

Synonyms: Optseq2, Optseq - fMRI Event Scheduler

Resource Type: data acquisition software, software application, standalone software, data processing software, software resource

Keywords: fmri, scheduling event, event, rper, hemodynamic response, stimulus, stochastic design

Availability: Available for download

Resource Name: Optseq

Resource ID: SCR_014363

Alternate IDs: SCR_005976, nlx_151349

Alternate URLs: <http://www.nitrc.org/projects/optseq>

Record Creation Time: 20220129T080320+0000

Record Last Update: 20260804T043542+0000

Ratings and Alerts

No rating or validation information has been found for Optseq.

No alerts have been found for Optseq.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 332 mentions in open access literature.

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

Avery JA, et al. (2025) Automatic engagement of limbic and prefrontal networks in response to food images reflects distinct information about food hedonics and inhibitory control. *Communications biology*, 8(1), 270.

Dumitrescu AM, et al. (2025) Investigating the Spatio-Temporal Signatures of Language Control-Related Brain Synchronization Processes. *Human brain mapping*, 46(2), e70109.

Dellert T, et al. (2025) Neural correlates of consciousness in an auditory no-report fMRI study. *Current biology : CB*, 35(23), 5721.

Kim J, et al. (2025) Sensitivity of the inferior frontal gyrus to morphological processing through the detection of category violation. *Scientific reports*, 15(1), 27675.

Fjell AM, et al. (2025) Stable hippocampal correlates of high episodic memory function across adulthood. *Scientific reports*, 15(1), 8816.

Feng G, et al. (2025) Brain Changes Following Two Reading Interventions in Chinese Children With Reading Disability. *Developmental science*, 28(4), e70038.

Ulrich M, et al. (2025) Indirect experiential grounding: semantic similarity of abstract scientific concepts is reflected in activity patterns in visual and motor cortex. *Scientific reports*, 15(1), 43814.

Cho E, et al. (2024) Neural processing of prototypicality and simplicity of product design in forming design preferences. *PloS one*, 19(1), e0297148.

Toenders YJ, et al. (2024) Developing body estimation in adolescence is associated with neural regions that support self-concept. *Social cognitive and affective neuroscience*, 19(1).

Park H, et al. (2024) Involvement of the anterior insula and frontal operculum during wh-question comprehension of wh-in-situ Korean language. *PloS one*, 19(4), e0298740.

Yan X, et al. (2024) Reading disability is characterized by reduced print-speech convergence. *Child development*, 95(6), 1982.

Mart??n-Signes M, et al. (2024) Integrating brain function and structure in the study of the human attentional networks: a functionnectome study. *Brain structure & function*, 229(7), 1665.

Chai XJ, et al. (2024) From vision to memory: How scene-sensitive regions support episodic memory formation during child development. *Developmental cognitive neuroscience*, 65, 101340.

Yan X, et al. (2024) Age-related changes in individuals with and without reading disability: Behavioral and fMRI evidence. *Imaging neuroscience (Cambridge, Mass.)*, 2.

van der Crujisen R, et al. (2024) The role of autism and alexithymia traits in behavioral and neural indicators of self-concept and self-esteem in adolescence. *Autism : the international journal of research and practice*, 28(9), 2346.

Humphreys GF, et al. (2024) The left posterior angular gyrus is engaged by autobiographical recall not object-semantics, or event-semantics: Evidence from contrastive propositional speech production. *Imaging neuroscience (Cambridge, Mass.)*, 2.

van de Groep S, et al. (2023) Temporal discounting for self and friends in adolescence: A fMRI study. *Developmental cognitive neuroscience*, 60, 101204.

van der Crujisen R, et al. (2023) Longitudinal self-concept development in adolescence. *Social cognitive and affective neuroscience*, 18(1).

Gong Z, et al. (2023) A large-scale fMRI dataset for the visual processing of naturalistic scenes. *Scientific data*, 10(1), 559.

Zhou M, et al. (2023) A large-scale fMRI dataset for human action recognition. *Scientific data*, 10(1), 415.