

Khazar Ahmadi

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ACADEMIC EXPERIENCE

Postdoctoral researcher

Department of Neuropsychology, Ruhr University Bochum, Germany *04.22 - Present*
Department of Clinical Sciences, Lund University, Lund, Sweden *03.20 - 03.22*

EDUCATION

Otto-von-Guericke University, Magdeburg, Germany *08.14 - 10.19*

Ph.D. in psychology (magna cum laude)

Shahid Beheshti University, Tehran, Iran *09.10 - 06.13*

M.Sc. in child and adolescent clinical psychology (with distinction)

Tabriz University, Tabriz, Iran *09.06 - 02.10*

B.Sc. in clinical psychology (with distinction)

PUBLICATIONS

Submitted manuscripts

Ahmadi, K., Pereira, J. B., Berron, D., Vogel, J., Ingala, S., Strandberg, O. T., Janelidze, S., Barkhof, F., Pfeuffer, J., Knutsson, L., van Westen, D., Mutsaerts, H. J., Palmqvist, S., Hansson, O. Cerebral hypoperfusion is a late pathological event in the course of Alzheimers disease. [[Preprint link](#)]

Published manuscripts

Molz, B., Herbig, A., Baseler, H. A., de Best, P., Vernon, R., Raz, N., Gouws, A. D., **Ahmadi, K.**, Lowndes, R., Mclean, R. J., Gottlob, I., Kohl, S., Choritz, L., Maguire, J., Kanowski, M., Käsmann-Kellner, B., Wieland, I., Banin, E., Levin, N., Hoffmann, M. B., Morland, A. B. (2021). Structural changes to primary visual cortex in the congenital absence of cone input in achromatopsia. *NeuroImage: Clinical*; IF = 4.35 [[Link](#)]

Puzniak, R. J., McPherson, B.*, **Ahmadi, K.***, Herbig, A., Kaufmann, J., Liebe, T., Gouws, A. D., Morland, A. B., Gottlob, I., Hoffmann, M. B., Pestilli, F. (2021). CHIASM, the human brain albinism and achiasma MRI dataset. *Scientific data*; IF = 5.54. [shared * second authors; [Link](#)]

Lowndes, R., Molz, B., Warriner, L., Herbig, A., de Best, P., Raz, N., Gouws, A. D., **Ahmadi, K.**, Mclean, R. J., Gottlob, I., Kohl, S., Choritz, L., Maguire, J., Kanowski, M., Käsmann-Kellner, B., Wieland, I., Banin, E., Levin, N., Hoffmann, M. B., Morland, A. B., Baseler,

H. (2021). Structural differences across multiple visual cortical regions in the absence of cone function in congenital achromatopsia. *Frontiers in Neuroscience*; IF = 4.67. [[Link](#)]

Ahmadi, K., Fracasso, A., Puzniak, R. J., Gouws, A. D., Yakupov, R., Speck, O., Kaufmann, J., Pestilli, F., Dumoulin, S. O., Morland, A. B., Hoffmann, M. B. (2020). Triple visual hemifield maps in optic chiasm hypoplasia. *NeuroImage*; IF = 6.55. [[Link](#)]

Carvalho, J., Invernizzi, A., **Ahmadi, K.**, Hoffmann, M. B., Renken, R. J., Cornelissen, F. W. (2020). Micro-probing enables fine-grained mapping of neuronal populations using fMRI. *NeuroImage*; IF = 6.55. [[Link](#)]

Puzniak, R. J., **Ahmadi, K.**, Kaufmann, J., Gouws, A. D., Morland, A. B., Pestilli, F., Hoffmann, M. B. (2019). Quantifying nerve decussation abnormalities in the optic chiasm. *NeuroImage: Clinical*; IF = 4.35. [[Link](#)]

Ahmadi, K., Herbig, A., Wagner, M., Kanowski, M., Thieme, H., Hoffmann, M. B. (2019). Population receptive field and connectivity properties of the early visual cortex in human albinism. *NeuroImage*; IF = 6.55. [[Link](#)]

Eick, C., **Ahmadi, K.**, Sweeney-Reed, C. M., Hoffmann, M. B. (2019). Interocular transfer of visual memory: influence of visual impairment and abnormalities of the optic chiasm. *Neuropsychologia*; IF = 2.88. [[Link](#)]

Ahmadi, K., Fracasso, A., van Dijk, J. A., Kruijt, C., van Genderen, M., Dumoulin, S. O., & Hoffmann, M. B. (2018). Altered organization of the visual cortex in FHONDA syndrome. *NeuroImage*; IF = 6.55. [[Link](#)]

Arngnim⁺, N., Hougaard⁺, A., **Ahmadi, K.***, Vestergaard*, M. B., Schytz, H. W., Amin, F. M., Larsson, H.B.W., Olesen, J., Hoffmann, M.B. & Ashina, M. (2017). Heterogenous migraine aura symptoms correlate with visual cortex functional magnetic resonance imaging responses. *Annals of neurology*; IF = 9.03. [shared + first & * second authors; [Link](#)]

Hoffmann, M. B., Thieme, H., & **Ahmadi, K.** (2017). Potential of fMRI for the Functional Assessment of the Pathological Visual System. *Klinische Monatsblätter für Augenheilkunde*, 234(03), 303-310. [[Link](#)]

Ahmadi, K., Pouretmad, H. R., Esfandiari, J., Yoonessi, A., Yoonessi, A. (2015). Psychophysical evidence for impaired Magno, Parvo, and Konio-cellular pathways in dyslexic children. *Journal of ophthalmic & vision research*, 10(4), 433-40. [[Link](#)]

CONFERENCE PRESENTATIONS

Oral presentations

Ahmadi, K. (2022). Tau accumulation is associated with fiber-specific white matter degeneration in Alzheimers disease. International Society for Magnetic Resonance in Medicine (ISMRM), London, England.

Ahmadi, K. (2022). Disentangling fiber-specific white matter alterations in relation to hallmarks of Alzheimer's disease. Alzheimer's Disease and Parkinson's Disease (ADPD), Barcelona, Spain.

Ahmadi, K. (2021). Altered cerebral blood perfusion in Alzheimers disease spectrum and its association with amyloid- β and tau pathology. Alzheimer's Disease and Parkinson's Disease (ADPD), Virtual conference.

Ahmadi, K. (2018). Macroscopic and mesoscopic cortical organization in congenital visual pathway abnormalities. Brain-in-depth (BID) - Symposium on layer-dependent MRI, German Center for Neurodegenerative Diseases (DZNE), Magdeburg, Germany.

Ahmadi, K. (2018). Altered organization of the visual cortex in FHONDA syndrome. 4th European Days of Albinism, Hurdal Vision and Activity Center, Oslo, Norway.

Ahmadi, K., Fracasso, A., van Dijk, J. A., van Genderen, M., Dumoulin, S. O., & Hoffmann, M. B. (2016). Altered retino-cortical connections and visual cortex reorganization in the recently discovered FHONDA syndrome. Society for neuroscience (SfN), San Diego, USA.

Poster presentations

Ahmadi, K., Pereira, J. B., Berron, D., Vogel, J., Ingala, S., Strandberg, O. T., Janelidze, S., Barkhof, F., Pfeuffer, J., Knutsson, L., van Westen, D., Mutsaerts, H. J., Palmqvist, S., Hansson, O. (2021). Tau and synaptic biomarkers but not amyloid- β are associated with cerebral perfusion in the Alzheimers disease spectrum. Alzheimer's Association Internation Conference (AAIC), Virtual conference.

Cicognola, C., Janelidze, S., Van Westen, D., **Ahmadi, K.**, Hansson, O. (2021). Cerebrospinal fluid platelet-derived growth factor receptor beta measured in Biofinder 2: an early biomarker in the Alzheimers disease continuum? Clinical Trials on Alzheimer's Disease (CTAD), Boston, USA.

Puzniak, R. J., McPherson, B., **Ahmadi, K.**, Herbig, A., Kaufmann, J., Liebe, T., Gouws, A. D., Morland, A. B., Gottlob, I., Hoffmann, M. B., Pestilli, F. (2020). Chiasmal malformations dataset: a unique neuroimaging testbed. Vision Science Society (VSS), Virtual conference.

Hoffmann, M. B., Molz, B., Herbig, A., de Best, P., Raz, N., Gouws, A. D., **Ahmadi, K.**, Lowndes, R., Mclean, R. J., Kohl, S., Gottlob, I., Choritz, L., Maguire, J., Kanowski, M., Käsmann-Kellner, B., Wieland, I., Banin, E., Levin, N., Baseler, H. Morland, A. B. (2020). Visual cortex stability and plasticity in the absence of functional cones in achromatopsia. Vision Science Society (VSS), Virtual conference.

Ahmadi, K., Fracasso, A., Puzniak, R. J., Gouws, A. D., Yakupov, R., Speck, O., Kaufmann, J., Pestilli, F., Dumoulin, S. O., Morland, A. B., Hoffmann, M. B. (2019). Triple hemi-field input to the visual cortex in a patient with chiasmal hypoplasia. Organization for Human Brain Mapping (OHBM), Rome, Italy.

Carvalho, J., **Ahmadi, K.**, Invernizzi, A., Hoffmann, M. B., Renken, R., Cornelissen, F. W. (2019). Micro-probing the visual cortex: high-resolution mapping of neuronal sub-populations. Organization for Human Brain Mapping (OHBM), Rome, Italy.

Puzniak, R. J., **Ahmadi, K.**, Kaufmann, J., Gouws, A. D., Morland, A. B., Pestilli, F., Hoffmann, M. B. (2019). Quantification of nerve decussation abnormalities in the optic chiasm. Organization for Human Brain Mapping (OHBM), Rome, Italy.

Prabhakaran, G., Al-Nosairy, K. O., Tempelmann, C., **Ahmadi, K.**, Hoffmann, M. B. (2019). Brain activity in input-deprived visual cortex in glaucoma no fMRI-evidence of plasticity. Organization for Human Brain Mapping (OHBM), Rome, Italy.

Ahmadi, K., Fracasso, A., Gouws, A. D., Morland, A. B., Dumoulin, S. O., Hoffmann, M. B. (2017). Functional organization of the visual cortex in a unique case of achiasma. Society for neuroscience (SfN), Washington, D.C., USA.

Ahmadi, K., Fracasso, A., van Dijk, J. A., Kruijt, C., van Genderen, M., Dumoulin, S. O., & Hoffmann, M. B. (2017). Cortical plasticity in FHONDA: a new inherited visual system disorder. European conference on visual perception (ECCV), Berlin, Germany.

Ahmadi, K., Pouretmad, H. R., Esfandiari, J., Yoonessi, A. (2013). Investigation of magno, parvo and koniocellular pathways in children with dyslexia. International conference of cognitive sciences (ICCS), Tehran, Iran.