

Positions / awards

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Subject: Post-doctoral position - MRI imaging of the impact of air pollution on school age children

To: Lobi Nencki <lobi@nencki.edu.pl>

Post-doctoral position / tenure-track potential / neuroimaging

MRI imaging of the impact of air pollution on school age children

Non-corona-associated literature

[PDF] [Olfaction in migraine and its psychiatric comorbidities: a narrative review](#)

C DE LUCA, M CAFALLI, A DELLA VECCHIA, S GORI...

[PDF] [The human olfactory bulb process odor valence representation and initiate motor avoidance behavior](#)

B Iravani, M Schaefer, DA Wilson, A Arshamian... - bioRxiv, 2021

[HTML] [Astrogliosis and sexually dimorphic neurodegeneration and microgliosis in the olfactory bulb in Parkinson's disease](#)

A Flores-Cuadrado, D Saiz-Sanchez... - npj Parkinson's Disease, 2021

[HTML] [Validation of Olfactory Questionnaire in Koreans: an Alternative for Conventional Psychophysical Olfactory Tests](#)

JW Kim, M Kim, SH Kim, SW Cho, JY Kim - Journal of Korean Medical Science, 2021

Scent marketing: linking the **scent** congruence with brand image

K Errajaa, P Legohérel, B Daucé, A Bilgihan - International Journal of Contemporary ..., 2020

[PDF] [IMPAIRED OLFACTORY NETWORK FUNCTIONAL CONNECTIVITY IN PARKINSON'S DISEASE: A NOVEL MARKER FOR DISEASE PROGRESSION](#)

P Karunanayaka, J Lu, MM Lewis, R Elyan, Q Yang... - bioRxiv, 2021

[HTML] [Intranasal sodium citrate in quantitative and qualitative olfactory dysfunction: results from a prospective, controlled trial of prolonged use in 60 patients](#)

KL Whitcroft, N Gunder, M Cuevas, P Andrews... - European Archives of Oto ..., 2021

[HTML] [Individual odor hedonic perception is coded in temporal joint network activity](#)

P Ruser, CJ Koepfel, HH Kitzler, T Hummel, I Croy - NeuroImage, 2021

[\[PDF\] Can olfactory training support improvement of memory functioning in patients with cognitive disorders?](#)

A Mydlikowska-Śmigórska, K Śmigórski, D Szcześniak...

... Clin. Neuropsychol. 2017; 31(8): 1449–1458. doi:10.1080/13854046.2017.

[\[HTML\] Human olfactory dysfunction: Causes and consequences](#)

L Schäfer, VA Schriever, I Croy - Cell and Tissue Research, 2021

[Olfactory Perception and Different Decongestive Response of the Nasal Mucosa During Menstrual Cycle](#)

MS Bogdan, DO Slavic, SS Babovic, BS Zvezdin... - American Journal of ..., 2021

[\[PDF\] Wearable Sensors for Assessing the Role of Olfactory Training on the Autonomic Response to Olfactory Stimulation](#)

A Tonacci, L Billeci, I Di Mambro, R Marangoni... - Sensors, 2021

Differences in **taste** and **smell** perception between type 2 diabetes mellitus patients and healthy controls.

Catamo E, Tornese G, Concas MP, Gasparini P, Robino A. Nutr Metab Cardiovasc Dis. 2021 Jan 4;31(1):193-200.

Towards subgroup-specific risk estimates: A meta-analysis of longitudinal studies on **olfactory** dysfunction and risk of Parkinson's disease.

Janssen Daalen JM, Tosserams A, Mahlkecht P, Seppi K, Bloem BR, Darweesh SKL. Parkinsonism Relat Disord. 2021 Jan 12:S1353-8020(21)00020-1.

Effects of **olfactory** training on posttraumatic **olfactory** dysfunction: a systematic review and meta-analysis.

Huang T, Wei Y, Wu D. Int Forum Allergy Rhinol. 2021 Jan 24.

[\(Mono-\) Exposure to Naphthalene in the Abrasives Industry: Air Monitoring and Biological Monitoring.](#)

Weiss T, Breuer D, Bury D, Friedrich C, Werner S, Aziz M, Hummel T, Raulf M, Zschiesche W, Sucker K, Pallapies D, Bünger J, Brüning T. Ann Work Expo Health. 2020 Nov 16;64(9):982-992.

Corona-associated literature

Evidence of SARS-CoV2 Entry Protein ACE2 in the Human Nose and **Olfactory** Bulb.

Klingenstein M, Klingenstein S, Neckel PH, Mack AF, Wagner AP, Kleger A, Liebau S, Milazzo A. *Cells Tissues Organs*. 2021 Jan 22:1-10.

Implications of underrecognition of **smell** and taste as a symptom of COVID-19 infection.
Mp Jolobe O. *QJM*. 2021 Jan 24:hcab017.

The clinical course of **smell** and **taste** loss in COVID-19 hospitalized patients.
Printza A, Katotomichelakis M, Metallidis S, Panagopoulos P, Sarafidou A, Petrakis V, Constantinidis J. *Hippokratia*. 2020 Apr-Jun;24(2):66-71.

Self-reported **smell** and **taste** alteration as the sole clinical manifestation of SARS-CoV-2 infection.
Cirillo N, Colella G. *Oral Surg Oral Med Oral Pathol Oral Radiol*. 2020 Dec 8:S2212-4403(20)31394-8. doi: 10.1016/j.oooo.2020.11.016.

Objective evaluation and predictive value of **olfactory** dysfunction among patients hospitalized with COVID-19.
Mangia LRL, Soares MB, de Souza TSC, De Masi RDJ, Scarabotto PC, Hamerschmidt R. *Auris Nasus Larynx*. 2021 Jan 23:S0385-8146(21)00033-X.

[The odor stick identification test for Japanese (OSIT-J) in a case of coronavirus disease 2019 (COVID-19) without pneumonia].
Asahara Y, Mukai T, Suda M, Suzuki M. *Rinsho Shinkeigaku*. 2021 Jan 26.

Olfactory Dysfunction in COVID-19 Patients: Findings from a Tertiary Rural Centre.
Thakur K, Sagayaraj A, Prasad KC, Gupta A. *Indian J Otolaryngol Head Neck Surg*. 2021 Jan 18:1-7.

Quick **Olfactory** Sniffin' Sticks Test (Q-Sticks) for the detection of **smell** disorders in COVID-19 patients.
Bagnasco D, Passalacqua G, Braido F, Tagliabue E, Cosini F, Filauro M, Ioppi A, Carobbio A, Mocellin D, Riccio AM, Canevari FR. *World Allergy Organ J*. 2021 Jan;14(1):100497.

[\[HTML\] Objective evaluation and predictive value of olfactory dysfunction among patients hospitalized with COVID-19](#)

[LRL Mangia, MB Soares, TSC de Souza, RDJ De Masi... - Auris Nasus Larynx, 2021](#)

[\[HTML\] Quick Olfactory Sniffin' Sticks Test \(Q-Sticks\) for the detection of smell disorders in COVID-19 patients](#)

[D Bagnasco, G Passalacqua, F Braido, E Tagliabue... - World Allergy Organization ..., 2021](#)

[\[HTML\] Objective gustatory and **olfactory** dysfunction in COVID-19 patients: a prospective cross-sectional study](#)

T Singer-Cornelius, J Cornelius, M Oberle... - European Archives of Oto ..., 2021

[\[PDF\] The usefulness of a quantitative **olfactory** test for the detection of COVID-19.](#)

MA Lessa, SMR Cotta-Pereira, FA Ferreira... - medRxiv, 2021

[\[PDF\] Changes in internet search behaviors related to **smell** and taste disorders during the COVID-19 outbreak in Turkey](#)

E Sakalli, D Temirbekov, M Mahouti, MC Kesimli... - The Turkish Journal of Ear ..., 2020

[\[HTML\] Sudden onset of **olfactory** and gustatory dysfunctions in coronavirus disease 2019 \(COVID-19\) is momentous marker](#)

HT Chaturvedi, C Chaturvedi - 2021

[\[PDF\] High frequency of **smell** and taste dysfunctions in allergy health care professionals suffering from COVID-19](#)

DA Amérigo, JL Cubero, C Colás, I Alobid, J Mullol... - J Investig Allergol Clin ..., 2021

[\[PDF\] Improved screening of COVID-19 cases through a Bayesian network symptoms model and psychophysical **olfactory** test](#)

S Eyheramendy, PA Saa, EA Undurraga, C Valencia... - medRxiv, 2021

[\[HTML\] Regional and Chronological Variation of Chemosensory Dysfunction in COVID-19: a Meta-Analysis](#)

JW Kim, SC Han, HD Jo, SW Cho, JY Kim - Journal of Korean Medical Science, 2021

[\[PDF\] Neuropathology of COVID-19 \(neuro-COVID\): clinicopathological update](#)

JJ Lou, M Movassaghi, D Gordy, MG Olson, T Zhang... - Free Neuropathology, 2021

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Post-doctoral position / tenure-track potential / neuroimaging

MRI imaging of the impact of air pollution on school age children

https://neurosmog.psychologia.uj.edu.pl/jobs/-/journal_content/56_INSTANCE_PF4I76NNodfR/146334060/147082082

A postdoctoral position is available in the [Neurosmog project](#) in the [Szwed lab](#) in the department of Psychology at the Jagiellonian University in Kraków, Poland, to work on the impact of ambient air pollution on the developing brain in school-age children. The successful candidate is expected to take the role the associate leader in the ongoing collection and the planned analysis of the rich Neurosmog neuroimaging data (task and RS- fMRI, DWI, structural, myelin mapping).

The Neurosmog project endeavours to investigate the effects of air pollution on behavioural and neural changes in school-age children. It combines four scientific teams in the fields of pollution assessment, child psychology, neuroimaging and epidemiology with the common goal of determining the impact of ambient air pollution on the developing brain in school age children. It uses MRI imaging and in-depth psychological testing of 300 cases of an ADHD group and 500 cases of a control group selected from the general population. Data collection has already began, and its end is foreseen in July 2022. This post is fully funded by a 3.5M EUR grant awarded by the [Foundation for Polish Science](#) (Fundacja na rzecz Nauki Polskiej, FNP)

The candidate is expected to take the role the associate leader of a large-scale neuroimaging project with an enormous relevance to urgent public health issues. The position is initially for 33 months, and can be extended and converted into a tenure-track position on the condition of receiving external funding. The Institute of Psychology will support and encourage this extension. It will also cover the cost of the necessary advanced degree (Habilitation) required for career advancement.

The candidates' job will be to:

- * supervise ongoing MRI data collection
- * With the help of the projects' data manager/programmer and a PhD student, and in liaison with the epidemiology/child psychology groups, and plan, build and execute MRI data analysis
- * Present and publish project results
- * Plan an expansion of the neuroimaging data analysis by using the vast amount of unique data gathered under Neurosmog. Options include, but are not limited to fields such as green space research, socioeconomic research, ADHD research, or similar
- * In the last year of the postdoc contract, apply for new funding schemes

The candidate will be based in Institute of Psychology at Jagiellonian University in Kraków, Poland. JU [Institute of Psychology](#), ranked number one in Poland for psychological research. Located in a newly renovated building in the very heart of Kraków, a vibrant city famous for its architecture,

culture and quality of life, the Institute is a renowned centre of excellence and hosts research teams working on themes ranging from neuroimaging and neuroplasticity to health and social psychology.

Applicants must have a PhD (or equivalent) degree in psychology, neuroscience, or a related field including, computer science, applied mathematics, biology etc., obtained not earlier than in 2012 (extensions possible for parental leave). Previous experience in MRI imaging is indispensable. Experiences with neuroimaging packages (SPM, FSL, Freesurfer and similar), structural MRI and DTI or large-scale MRI datasets will be a plus, but are not obligatory.

Terms of employment:

The position is initially available for is initially for 33 months (until end of December 2023). Salary for this position will be approximately 7300 PLN (Net) - for candidates who obtained their PhD after 2015, and approximately 8500 PLN (Net) - for candidates who obtained their PhD between 2012 and 2015. Both are sufficient for a high standard life in Kraków, where living costs are substantially lower than the EU average.

The position can be extended on the condition of receiving external funding. The candidate will be expected to apply for Polish and international tenure-track funding schemes such as the NAWA Chair Programme the NCN/Max Planck Dioscuri Programme (before beginning of the contract), and the NCN funding schemes (OPUS, SONATA, SONATA BIS, during his/her postdoc contract).

Benefits include health coverage (NFZ) for the candidate and his/her family, summer and winter holiday benefit for children and teenagers, childcare subsidy and sport and leisure activities/subsidies. The NeuroSmog project provides ample research funding for equipment, database access, software, conferences and collaborative travel.

To apply send a CV including a list of publications, research experience and scientific interests, and email addresses of two science or professional mentors for possible references to: m.szwed@uj.edu.pl Enquiries are welcome, and should be sent to the same email address

Deadline for application is 26.02.2021.

Starting date is April 2021 but can be postponed in exceptional cases