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Template: CIHR Project Biosketch

Dr. Georg Northoff

Correspondence language: English

Sex: Male

Date of Birth: 1/16

Canadian Residency Status: Permanent Resident

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Address

Primary Affiliation (*)

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Protected when completed

Dr. Georg Northoff

Degrees

1994/1 - 1999/1	Habilitation, Philosophy (approx. equivalent to tenure), Heinrich-Heine-Universität Dusseldorf Degree Status: Completed
1994/1 - 1998/1	Habilitation, Neuroscience/Psychiatry (approx. equivalent to tenure), Otto-Von-Guericke-Universität Magdeburg Degree Status: Completed
1989/1 - 1992/1	Master's Thesis, M.A. Philosophy (approx. equivalent to Ph.D.), Ruhr-Universität Bochum Degree Status: Completed
1985/1 - 1990/1	Master's Thesis, M.A. Medicine (approx. equivalent to Ph.D.), Ludwig-Maximilians Universität München Degree Status: Completed
1983/1 - 1989/1	Doctorate, M.D., Ruhr-Universität Bochum Degree Status: Completed

Credentials

2009/1	Ontario College of Physicians: Medical License #92338, Ontario College of Physicians
1989/1	German Medical Board, Province Sachsen-Anhalt: Medical License # 50417, German Medical Board

Recognitions

2016/5 - 2023/4	Canada Research Chair, Tier 1, CIHR, Mind, Brain Imaging and Neuroethics, second term Canada Research Chair
2016/1 - 2018/12	Professor of Excellence, Department of Neurosurgery Fudan University
2013/1 - 2015/12	Thousand Talents Chair/Professor (Federal Program - China) Centre for Cognition and Brain Disorders-Hangzhou Normal University
2009/1 - 2016/1	Canada Research Chair, Tier 1, CIHR, Mind, Brain Imaging and Neuroethics, first term University of Ottawa
2009/1 - 2016/1	The Michael Smith Chair EJLB-CIHR for Neuroscience and Mental Health University of Ottawa

Employment

2014/5	Honorary Professor Department of Philosophy, Zhejiang University, Zhejiang University
2012/1	Full Professor; Head, Mental Disorders (two months per year) Medicine, Psychiatry, Hangzhou Normal University, China
2010/1	Adjunct Research Professor Psychology, Faculty of Arts and Sciences, Carleton University
2009/1	Adjunct Research Professor Psychology, Faculty of Arts, University of Ottawa
2009/1	Full Professor Psychiatry, University of Ottawa Institute of Mental Health Research, University of Ottawa
2009/1	Adjunct Research Professor Philosophy, Faculty of Social Science, University of Ottawa
2009/1	Canada Research Chair in Mind, Brain Imaging and Neuroethics, CIHR, Tier 1, second term. Psychiatry, Medicine, University of Ottawa
2009/1	Director: Mind, Brain Imaging and Neuroethics Psychiatry, University of Ottawa, Institute Mental Health Research
2017/5 - 2022/4	Cross Appointment School of Electrical Engineering and Computer Science, Engineering, University of Ottawa
2014/5 - 2020/5	Honorary Professor Psychology, School of Psychology, National Chengchi University - Taipei City
2014/4 - 2019/12	Adjunct Research Professor Arts and Social Sciences, Institute of Cognitive Science, Carleton University
2014/1 - 2019/1	Co-Director, Brain and Consciousness Centre, Taipei Medical University, Taiwan Psychiatry, Medicine, Taipei Medical University
2009/1 - 2016/1	EJLB-CIHR Michael Smith Chair in Neurosciences and Mental Health CIHR, Faculty of Medicine, Neuroscience, University of Ottawa
2005/1 - 2009/1	Full Professor, Neuropsychiatry Psychiatry, Faculty of Medicine, Otto-Von-Guericke-Universitat Magdeburg
2003/1 - 2005/1	Associate Professor Psychiatry, Faculty of Medicine, Otto-Von-Guericke-Universitat Magdeburg
2003/1 - 2003/4	Director and Chief Attending Physician Neuroimaging and Neurophilosophy, Faculty of Medicine, University of Magdeburg, Magdeburg, Germany
2000/1 - 2003/1	Visiting Associate Professor Medicine, Faculty of Medicine, Harvard University
1998/1 - 2000/1	Assistant Professor Psychiatry, Faculty of Medicine, Otto-Von-Guericke-Universitat Magdeburg
1996/1 - 2000/1	Attending Physician Psychiatry, Faculty of Medicine, Otto-Von-Guericke-Universitat Magdeburg
1990/1 - 1995/1	Resident Physician Psychiatry, Faculty of Medicine, J.W. Goethe Universität Frankfurt

Affiliations

The primary affiliation is denoted by (*)

(*) 2009/5 Full Professor, Senior Scientist, and Director of the Mind, Brain Imaging and Neuroethics Research Unit, uOttawa Institute of Mental Health Research

Research Funding History

Awarded [n=23]

2016/5 - 2023/4 Principal Applicant	Canada Research Chair, Mind, Brain Imaging and Neuroethics, Tier I, CIHR, second term. Funding Sources: Canada Research Chairs (CRC) Canada Research Chair Total Funding - 1,400,000 Funding Competitive?: Yes
2016/1 - 2021/12 Co-investigator	Self related processing in healthy and depressed subjects.... Funding Sources: National Natural Science Foundation of China #31271195 Total Funding - 180,000 Funding Competitive?: Yes
2016/10 - 2021/9 Co-applicant	Diagnosis and Therapy of Depression-multi level approach Funding Sources: Ministry of Education of China Excellence Program Total Funding - 9,016,000 Funding Competitive?: Yes
2015/6 - 2020/6 Co-investigator	CFI Infrastructure - Brain Vision Co. "Human EEG" Funding Sources: Canada Foundation for Innovation (CFI) Innovation Fund Total Funding - 7,145,160 Funding Competitive?: Yes Co-applicant : Schlossmacher, M., Bui, T., Corbett, D., Lagace, D., Northoff, G., Merali, Z, Sachs, A., Thivierge,; Principal Applicant : Park, D.
2016/8 - 2019/7 Co-applicant	Multi-modal investigations of self-consciousness in MDD Funding Sources: Ministry of Science and Technology of the People's Republic of China (MOST) MOST Total Funding - 279,784 Funding Competitive?: Yes Co-applicant : Tim Lane
2016/12 - 2018/12 Principal Applicant	Does brain imaging improve therapy in psychiatric disorders? An imaging-based and individualized approach to stimulation treatment Funding Sources: Physicians' Services Incorporated Foundation

- PSI Foundation
Total Funding - 170,000
Funding Competitive?: Yes
- 2017/9 - 2018/9
Co-applicant
Can topological analyses of brain imaging provide diagnostic markers in psychiatric disorders? Mathematics and clinical imaging.
Funding Sources:
uOttawa Mind and Brain Research Institute
uOMBRI
Total Funding - 25,000
Funding Competitive?: Yes
Principal Investigator : Fraser, M.; Northhoff, G.
- 2016/12 - 2017/12
Co-investigator
Multimodal brain imaging and computational modelling in depression: Can excitation-inhibition balance predict differences in symptoms and improve treatment
Funding Sources:
University Medical Research Funding [uOttawa Psychiatry]
UMRF
Total Funding - 55,000
Funding Competitive?: Yes
Principal Applicant : San Cristobal, B.
- 2015/1 - 2017/12
Co-applicant
An fMRI study of moral judgment: The modulating effects of emotion and religious belief
Funding Sources:
Ministry of Science and Technology of the People's Republic of China
MOST
Total Funding - 157,108
Funding Competitive?: Yes
Co-applicant : Tim Lane
- 2014/1 - 2017/12
Principal Investigator
Establishment of Key Technology and Further Investigation into the Neurobiochemical Mechanism of Social Anxiety
Funding Sources:
National Natural Science Foundation of China (NSFC)
NSFC
Total Funding - 100,000
Funding Competitive?: Yes
- 2016/12 - 2017/12
Principal Applicant
Does brain imaging improve therapy in psychiatric disorders? An imaging-based and individualized approach to stimulation treatment
Funding Sources:
University Medical Research Funding [uOttawa Psychiatry]
UMRF
Total Funding - 55,000
Funding Competitive?: Yes
- 2016/10 - 2017/10
Principal Investigator
Does packaging of the message impact our ethical decisions? Neuroscience, reductionism and informed consent?
Funding Sources:
University Medical Research Funding [uOttawa Psychiatry]
UMRF
Total Funding - 55,000
Funding Competitive?: Yes

- 2016/8 - 2017/7
Co-applicant
Predictions of therapeutic effects of Zolpidem in disorders of consciousness patients
Funding Sources:
Ministry of Science and Technology of the People's Republic of China
MOST
Total Funding - 43,000
Funding Competitive?: Yes
- 2015/5 - 2016/5
Principal Applicant
The multisensory brain in MDD patients
Funding Sources:
University Medical Research Fund [uOttawa Psychiatry]
UMRF
Total Funding - 54,500
Funding Competitive?: Yes
- 2009/5 - 2016/4
Principal Applicant
Canada Research Chair, Mind, Brain Imaging and Neuroethics, Tier I
Funding Sources:
Canada Research Chairs (CRC)
Canada Research Chair
Total Funding - 1,400,000
Funding Competitive?: Yes
- 2013/1 - 2016/1
Principal Investigator
The neuro-cognitive mechanism underlying the deficit of the self into the future in depressive disorder
Funding Sources:
National Natural Science Foundation of China (NSFC)
NSFC Grant #31271195
Total Funding - 85,000
Funding Competitive?: Yes
- 2011/1 - 2016/1
Principal Investigator
Neural and biochemical correlates of resting state activity and emotional processing in major depressive disorder - Multimodal imaging (fMRI, MRS and PET) during GABA- and glutamatergic intervention
Funding Sources:
Canadian Institutes of Health Research (CIHR)
CIHR
Total Funding - 680,000
Funding Competitive?: Yes
Co-investigator : Doyon, J., Berlin, MT.
- 2014/9 - 2015/9
Co-investigator
Depression and the excitation-inhibition balance - A computational approach to psychiatric disorder
Funding Sources:
uOttawa Brain and Mind Research Institute
uOMBRI
Total Funding - 60,000
Funding Competitive?: Yes
Co-applicant : Longtin, André
- 2009/1 - 2015/1
Principal Applicant
CRC tier 1 associated CFI JELF
Funding Sources:
Canada Foundation for Innovation (CFI)
CRC/CFI
Total Funding - 235,000

- 2014/6 - 2014/6
Principal Applicant
- Funding Competitive?: Yes
- GABA and glutamatergic modulation of resting state and affectively-related neural activity in depression - A combined fMRI-MRS-PET study
- Funding Sources:**
The Neuropsychoanalytic Foundation
The Neuropsychoanalytic Foundation Grant
Total Funding - 250,000
Funding Competitive?: Yes
- 2012/1 - 2014/1
Principal Investigator
- Are there neural differences in the self in Eastern and Western depression? A cross-cultural imaging study
- Funding Sources:**
Canadian Institutes of Health Research (CIHR)
China-Canada Joint Health Research Initiative
Total Funding - 225,000
Funding Competitive?: Yes
- Co-applicant : Han, S.
- 2009/1 - 2014/1
Principal Applicant
- Endowment Grant for EJLB Michael Smith Chair in Neurosciences and Mental Health
- Funding Sources:**
EJLB Foundation / Canadian Institutes of Health Research (CIHR)
Michael Smith Chair in Neurosciences and Mental Health
Total Funding - 200,000
Funding Competitive?: Yes
- 2013/1 - 2014/1
Principal Investigator
- Does neural activity during reward predict self-relatedness?
- Funding Sources:**
National Science Council (Taiwan)
National Science Council of Taiwan
Total Funding - 2,460,000
Funding Competitive?: Yes
- Co-investigator : Nai-Shing, Y., Lane, T.
- Completed [n=1]**
- 2009/1 - 2016/1
Principal Applicant
- Establishment Grant EJLB-CIHR Michael Smith Chair in Neurosciences and Mental Health
- Funding Sources:**
EJLB Foundation / Canadian Institutes of Health Research (CIHR)
EJLB-CIHR Michael Smith Chair in Neurosciences and Mental Health
Total Funding - 550,000
Funding Competitive?: Yes

Publications

Journal Articles

1. Zhang J , Huang Z , Chen Y , Zhang J , Ghinda D , Nikolova Y , Wu J , Xu J , Bai W , Mao Y , Yang Z , Duncan N , Qin P , Wang H , Chen B , Weng X , Northhoff G. (2018). Breakdown in the temporal and spatial organization of spontaneous brain activity during general anesthesia.Human brain mapping. 00: 00.
Published
Refereed?: Yes
2. Hirjak D , Northhoff G , Thomann PA , Kubera KM , Wolf RC. (2018). [Genuine motor phenomena in schizophrenia : Neuronal correlates and pathomechanisms].Der Nervenarzt. 89(1): 27-43.
Published
Refereed?: Yes
3. Ghinda DC , Wu JS , Duncan NW , Northhoff G. (2018). How much is enough-Can resting state fMRI provide a demarcation for neurosurgical resection in glioma?. Neuroscience and biobehavioral reviews. 84: 245-261.
Published
Refereed?: Yes
4. Huang, Z., Davis IV, H., Wolff, A., Northhoff, G. (2017). Thalamo-sensorimotor functional connectivity correlates with world ranking of Olympic, Elite, and High Performance Athletes. Neural Plasticity. 2017(1473783): 10 Pages.
Published
Refereed?: Yes
5. Kasagi M , Huang Z , Narita K , Shitara H , Motegi T , Suzuki Y , Fujihara K , Tanabe S , Kosaka H , Ujita K , Fukuda M , Northhoff G. (2017). Association between Scale-Free Brain Dynamics and Behavioral Performance: Functional MRI Study in Resting State and Face Processing Task.Behavioural neurology. 2017: 2824615.
Published
Refereed?: Yes
6. Schaefer Michael, Northhoff Georg. (2017). Who Am I: The Conscious and the Unconscious Self.Front Hum Neurosci.11: 126.
Published
Refereed?: Yes
7. Petracca M, Saiote C, Bender HA, Arias F, Farrell C, Magioncalda P, Martino M, Miller A, Northhoff G, Lublin F, Inglese M.(2017). Synchronization and variability imbalance underlie cognitive impairment in primary-progressive multiple sclerosis.Scientific Reports. 7: 1-12.
Published
Refereed?: Yes, Open Access?: Yes
8. Zhang,J., Dai, R., Qin, P., Tang, W., Hu, J., Weng., X., Wu, X., Mao, Y., Yang, Z.,Wu, X., Northhoff, G.(2017). **Posterior cingulate cross-hemispheric functional connectivity predicts the level of consciousness in traumatic brain injury.**Sci Rep. 7(1): 387.
Published
Refereed?: Yes
9. Ferri F , Nikolova YS , Perrucci MG , Costantini M , Ferretti A , Gatta V , Huang Z , Edden RAE , Yue Q , D'Aurora M , Sibille E , Stuppia L , Romani GL , Northhoff G. (2017). A Neural "Tuning Curve" for Multisensory Experience and Cognitive-Perceptual Schizotypy.Schizophrenia bulletin. 43(4): 801-813.
Published
Refereed?: Yes

10. Ebisch SJH, Gallese V, Salone A, Martinotti G, di Iorio G, Mantini D, Perrucci MG, Romani GL, Di Giannantonio M, Northhoff G.(2017). Disrupted relationship between resting state connectivity and task-evoked activity during social perception in schizophrenia. *Schizophrenia Research*. 17: 30421-8.
Published
Refereed?: Yes
11. Huang, Z*, Zhang, J, Longtin , A*, Dumont, G*, Duncan, NW*, Porkorny, J*, Qin, P*, Dai, R, Ferri, F*, Weng, X, Northhoff, G. (2017). Is there a non-additive interaction between spontaneous and evoked activity? Phase-dependence and its relation to the temporal structure of scale-free brain activity. *Cerebral Cortex*. 27(2): 1037–1059.
Published
Refereed?: Yes
12. Mak ADP., Northhoff, G., Yeung, DKW., Chu, WCW., Hui, SCN., Cheung, C., Ching, J., Lam, L., Lee, S., Wu, J.(2017). Increased glutamate in somatosensory cortex in functional dyspepsia. *Scientific Report*. 20(7): 3926.
Published
Refereed?: Yes
13. Stanghellini, G., Ballerini, M., Presenza, S., Mancini, M., Northhoff, G., Cutting, J.(2017). Abnormal time experiences in major depression: an empirical qualitative study.*Psychopathology*. 50(2): 125-140.
Published
Refereed?: Yes
14. Northhoff G, Magioncalda P, Martino M, Lee HC, Tseng YC, Lane T.(2017). Too Fast or Too Slow? Time and Neuronal Variability in Bipolar Disorder-A Combined Theoretical and Empirical Investigation.*Schizophrenia Bulletin*. sbx050: Epub ahead of print.
Published
15. Petracca, M., Saiote, C., Bender, HA., Arias, F., Farrell, C., Magioncalda, P., Martino, M., Miller, A., Northhoff, G., Lublin, F., Inglese, M. (2017). Synchronization and variability imbalance underlie cognitive impairment in primary progressive multiple sclerosis.*Sci Report 2017 7:46411*.7: 46411 access.
Published
Refereed?: Yes
16. Scalabrini A, Huang Z, Mucci C, Perrucci MG, Ferretti A, Fossati A, Romani GL, Northhoff G, Ebisch SJH. (2017). How spontaneous brain activity and narcissistic features shape social interaction.*Sci Rep*.7: 1-12.
Published, Open Access?: Yes
17. Northhoff G, Huang Z.(2017). How do the brain's time and space mediate consciousness and its different dimensions? *Temporo-spatial theory of consciousness (TTC)*.*Neurosci Biobehav Rev*.80: 630-645.
Published
18. Mittal VA , Bernard JA , Northhoff G. (2017). What Can Different Motor Circuits Tell Us About Psychosis? An RDoC Perspective.*Schizophrenia bulletin*. 43(5): 949-955.
Published
19. Yang, Z., Li, M., Hu, X., Xiang, B., Deng, W., Wang, Q., Wang, Y., Zhao, L., Ma, X., Sham, P.C., Northhoff, G., Li, T.(2017). Rare damaging variants in DNA repair and cell cycle pathways are associated with hippocampal and cognitive dysfunction: a combined genetic imaging study in first episode treatment-naive patients with schizophrenia. *Transl. Psychiatry*. 7(2): 1-8.
Published
Refereed?: Yes
20. Northhoff, G.(2017). Paradox of slow frequencies - are slow frequencies in upper cortical layers a neural predisposition of the level/state of consciousness (NPC)?. *Coscious Cognition*. 54: 20-35.
Published
Refereed?: Yes

21. Northhoff, G.(2017). The brain's spontaneous activity and its psychopathological symptoms -"Spatiotemporal binding and integration". Prog Neuropsychopharmacol Biol Psychiatry. V0(10): 0-0.
In Press
Refereed?: Yes, Open Access?: Yes
- [22.](#) Hirjak D, Thomann PA, Northhoff G, Kubera KM, Wolf RC.(2017). [German version of the Northhoff catatonia rating scale (NCRS-dv) : A validated instrument for measuring catatonic symptoms].Nervenarzt. 88(7): 787–796.
Published
- [23.](#) Martino M, Magioncalda P, Yu H, Li X, Wang Q, Meng Y, Deng W, Li Y, Li M, Ma X, Lane T, Duncan NW, Northhoff G, Li T.(2017). Abnormal Resting-State Connectivity in a Substantia Nigra-Related Striato-Thalamo-Cortical Network in a Large Sample of First-Episode Drug-Naïve Patients With Schizophrenia.Schizophr Bull.sbx067: Epub ahead of print.
Published
24. Northhoff, G.(2016). Neuroscience and Whitehead II: Process based Ontology of Brain. Aximathes. V0(27): 1-25.
Published
Refereed?: Yes
25. Northhoff, G., Stanghellini, G.(2016). How to Link Brain and Experience? Spatiotemporal Psychopathology of the Lived Body. Frontiers in Human Neuroscience. 10(172): 1-15.
Published
Refereed?: Yes
26. Kotchoubey, B., Tretter, F., Braun, H.A., Buchheim, T., Draguhn, A., Fuchs, T., Hasler, F., Hastedt, H., Hinterberger, T., Northhoff, G., Rentschler, I., Schleim, S., Sellmaier, S., Tebartz Van Elst, L., Tschacher, W.(2016). Methodological Problems on the Way to Integrative Human Neuroscience. Front Integr Neuroscience. 10(41): 1-11.
Published
Refereed?: Yes
27. Northhoff, G. (2016). How do resting state changes in depression translate into psychopathological symptoms? From 'Spatiotemporal correspondence' to 'Spatiotemporal psychopathology'. Current Opinion Psychiatry. 29(1): 18-24.
Published
Refereed?: Yes
28. Northhoff, G.(2016). Neuroscience and Whitehead I: Neuro-ecological Model of Brain. Aximathes. V0(26): 1-34.
Published
Refereed?: Yes
29. Northhoff, G.(2016). Spatiotemporal Psychopathology II: How does a psychopathology of the brain's resting state look like? Spatiotemporal approach and the history of psychopathology. Journal of Affective Disorder. 2(190): 867-79.
Published
Refereed?: Yes, Open Access?: Yes
- [30.](#) Northhoff, G., Duncan, N.W.*. (2016). How do abnormalities in the brain's spontaneous activity translate into symptoms in schizophrenia? From an overview of resting state activity finding to a proposed spatiotemporal psychopathology. Prog. Neurobiolog. 145-146: 26-45.
Published
Refereed?: Yes

31. Magioncalda, P., Martino, M., Conio, B., Piaggio, N., Teodorescu, R., Escelsior, A., Marozzi, V., Rocchi, G., Roccatagliata, L., Northhoff, G., Inglese, M., Amore, M.(2016). Patterns of microstructural white matter abnormalities and their impact on cognitive dysfunction in the various phases of Type 1 Bipolar Disorder. *Journal of Affective Disorder*. 15(193): 39-50.
Published
Refereed?: Yes
- [32.](#) Nakao T, Kanayama N, Katahira K, Odani M, Ito Y, Hirata Y, Nasuno R, Ozaki H, Hiramoto R, Miyatani M, Northhoff G.(2016). Post-response $\beta\gamma$ power predicts the degree of choice-based learning in internally guided decision-making. *Sci Rep*.6: 1-9.
Published, Open Access?: Yes
33. Nakao, T., Kanayama, N., Katahira, K., Odani, M., Ito, Y., Nasuno, R., Ozaki, H., Hiramoto, R., Miyatani, M., Northhoff, G.(2016). Post-response beta gamma power predicts the degree of choice-based learning in internally guided decision-making. *Scientific Report*. 6(32477): 1-9.
Published
Refereed?: Yes
- [34.](#) Northhoff, G.(2016). Slow Cortical Potentials and "Inner Time Consciousness" - A Neuro-Phenomenal Hypothesis about the "Width of Present". *International Journal of Psychophysiology* -. 103: 174-184.
Published
Refereed?: Yes, Open Access?: Yes
35. Candini, M., Farinelli, M., Ferri, F., Avanzi, S., Cevolani, D., Gallese, V., Northhoff, G., Frassinetti, F.(2016). Implicit and explicit routes to recognize the own body: evidence from brain damaged patients. *Frontiers in Human Neuroscience*. 10(405): 1-11.
Published
Refereed?: Yes
- [36.](#) Lane, T., Duncan, N.W.*, Cheng, T., Northhoff, G.(2016). The trajectory of self. *Trends in Cognitive Science*. 20(7): 481 - 482.
Published
Refereed?: Yes
37. Costantini, M., Robinson, J., Migliorati, D., Donno, B., Ferri, F., Northhoff, G.(2016). Temporal limits on rubber hand illusion reflect individuals' temporal resolution in multisensory perception. *Cognition*. 157(10): 39-48.
Published
Refereed?: Yes
38. Dumont, G, Northhoff, G, Longtin, A. (2016). A stochastic model of input effectiveness during irregular gamma rhythms. *Computational Neuroscience*. 40(1): 85-101.
Published
Refereed?: Yes
- [39.](#) Cui, H., Zhang, J., Liu, Y., Qingwei, L., Hui, L., Lanlan, Z., Hu, Q., Cheng, W., Luo, Q., Li, J., Li, W., Wang, J., Feng, J., Li, C., Northhoff, G.(2016). Differential Alterations of Resting-State Functional Connectivity in Generalized Anxiety Disorder and Panic Disorder. *Human Brain Mapping*. 37(4): 1459–1473.
Published
Refereed?: Yes
- [40.](#) Martino M, Magioncalda P, Saiote C, Conio B, Escelsior A, Rocchi G, Piaggio N, Marozzi V, Huang Z, Ferri F, Amore M, Inglese M, Northhoff G.(2016). Abnormal functional-structural cingulum connectivity in mania: combined functional magnetic resonance imaging-diffusion tensor imaging investigation in different phases of bipolar disorder. *Acta Psychiatr Scand*.134(4): 339–349.
Published

41. Kotchoubey, B., Tretter, F., Braun, H.A., Buchheim, T., Draguhn, A., Fuchs, T., Hasler, F., Hastedt, H., Hinterberger, T., Northhoff, G., Rentschler, I., Schleim, S., Sellmaier, S., Tebartz Van Els, L., Tschacher, W. (2016). Methodological problems on the way to integrative human neuroscience. *Frontiers in Integrative Neuroscience*: 10(2016): 41. 10(10): 41.
Published
Refereed?: Yes
42. Stanghellini G., Ballerini, M., Prezenza, S., Mancini, M., Northhoff, G., Cutting, J.(2016). Abnormal time experiences in major depression: an empirical qualitative study. *Psychopathology (e-pub ahead of print)*. V0(10): 0.
In Press
Refereed?: Yes
- [43.](#) Northhoff, G. (2016). Spatiotemporal psychopathology I: No rest for the brain's resting state activity in depression? Spatiotemporal psychopathology of depressive symptoms. *Journal of Affective Disorders*. 190: 854 - 866.
Published
Refereed?: Yes, Open Access?: Yes
- [44.](#) Alderson-Day, B., Diederer, K., Fernyhough, C., Ford, J.M., Guillermo, H., Margulies, D.S., McCarthy-Jones, S., Northhoff, G., Shine, J.M., Turner, J., van de Ven, V., van Lutterveld, R., Waters, F., Jardri, R.(2016). Auditory hallucinations and the brain's resting-state networks: findings and methodological observations. *Schizophrenia Bulletin*. 42(5): 1110–1123.
Published
Refereed?: Yes
45. Martino, M*, Magioncalda, P.* , Huang, Z.* , Conio, B., Piaggio, N., Duncan, N.W.* , Rocchi, G., Escelsior, A., Marozzi, V., Wolff, A.* , Inglese, M., Amore, M., Northhoff, G.(2016). Contrasting variability patterns in the default mode: sensorimotor networks balance in bipolar depression and mania. *PNAS -Proceedings of the National Academy of Science*. 113(17): 4824-29.
Published
Refereed?: Yes
46. Qin, P.* , Grimm, S., Duncan, N.W.* , Fan, Y., Huang, Z.* Lane, T., Weng, X., Bajbouj, M., Northhoff, G. (2016). Spontaneous activity in default-mode network predicts ascription of self-relatedness to stimuli. *Soc Cogn Affect Neuroscience*. 11(4): 693-702.
Published
Refereed?: Yes
- [47.](#) Ebisch, S., Salone, A., Martinotti, G., Carlucci, L., Mantini, D., Perrucci, M.G.m Saggino, A., Romani, G.L., DiGiannantonio, M., Northhoff, G., Gallese, V.(2016). Integrative processing of touch and affect in social perception: an fMRI study. *Frontiers in Human Neuroscience*. 10: 209.
Published
Refereed?: Yes
- [48.](#) Weiler, M., Northhoff, G., Marcio-Luiz, D., Balthazar F.(2016). Self, cortical mid line structures and the resting state: implications for Alzheimer's disease. *Neuroscience & Behavioral Reviews*. 68: 245-255.
Published
Refereed?: Yes
- [49.](#) Amianto, F., Northhoff, G., Daga, G.A., Fassino, S., Tasca, G.A.(2016). Is anorexia nervosa a disorder of the self? A psychological approach. *Frontiers in Psychology*. 7: 849.
Published
Refereed?: Yes

- [50.](#) Huang, Z.* , Obara, N.* , Davis IV, H.* , Pokorny, J.* , Northoff, G.(2016). The temporal structure of resting-state brain activity in the medial prefrontal cortex predicts self-consciousness. *Neuropsychologia*. 82: 161-170.
Published
Refereed?: Yes
51. Stanghellini, G., Ballerini, M., Prezenza, S., Mancini, M., Northoff, G., Cutting, J.(2016). Abnormal Time Experiences in Major Depression: An Empirical Qualitative Study. *Psychopathology*. V0(10): 0-0.
In Press
Refereed?: Yes
- [52.](#) Duncan, NW*, Hayes, DJ*, Wiebking, C*, Tiret, B, Pietruska, K, Chen, DQ, Rainville, P, Marjanska, M, Ayad, O*, Doyon, J., Hodaie, M, Northoff, G. (2015). Negative childhood experiences alter a prefrontal-insider-motor cortical network in healthy adults: a preliminary multimodal refMRI-fMRI-MRS-dMRI study. *Human Brain Mapping*. 36(11): 4622-4637.
Published
Refereed?: Yes, Open Access?: Yes
- [53.](#) Hayes, DJ, Northoff, G, Greenshaw, AJ. (2015). Editorial: Reward and aversion related processing in the brain: translational evidence for separate and shared circuits. *Front Syst Neuroscience - eCollection 2015*. V0(10): eCollection.
Published
Refereed?: Yes
- [54.](#) Northoff, G. (2015). Is the self a higher-order or fundamental function of the brain? The basis model of self-specificity and its encoding by the brain's spontaneous activity. *Cognitive Neuroscience*. V7: 203-222.
Published
Refereed?: Yes
55. Northoff, G.(2015). Is schizophrenia a spatiotemporal disorder of the brain's resting state?. *World Psychiatry*. 14(1): 34-35.
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Books

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Published, #####, Taiwan, Province of China
2. Northhoff, G.(2016). *Neurophilosophy and the Healthy Mind. Learning from the unwell brain.*: 256. Norton Publishing.
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3. Leuzinger-Bohleber, M., Boker, H., Fishmann, T., Northhoff, G., Solms, M.(2015). *Psychoanalyse und Neurowissenschaften Chancen-Grenzen-Kontroversen (Psychoanalysis and Neuroscience, Chances, Borders and Controversies.* : 236. Leuzinger-Bohleber, M., Boker, H., Fishmann, T., Northhoff, G., Solms, M.
Published, Kohlhammer, Stuttgart, Germany
4. Northhoff, G. (2014). *Minding the Brain. A guide to neuroscience and philosophy.*Joseph, J., Stevens, P., and Hindley, J.
Published, Macmillan Publishing, United Kingdom
5. Northhoff, G. (2014). *Unlocking the Brain- Volume I: Coding; Volume II: Consciousness.* Oxford University Press.
Published, Oxford University Press, United States
6. Northhoff, G.(2014). *Wie kommt die Kultur in den Kopf? Eine neuro-wissenschaftliche Reise zwischen Ost un West (How are culture and brine related, Neuroscientific Journey though East and West).* : 248. Springer Spektrum publishing.
Published, Spring Spektrum, Germany
7. Northhoff, G., Farinelli, M., Chattat, R., Baldoni, F. (2014). *La plasticità del Sé, Un approccio neuropsicodinamico (The Plasticity of the Self).* 1(1): 239. Northhoff, G., Farinelli, M., Chattat, R., Baldoni, F.
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8. Northhoff, G. (2012). *Das Disziplinlose Gehirn-Was nun, Herr Kant (The Undisciplined Brain-What Now, Mister Kant).* (1)Northhoff, G.
Published, Irisiana, Germany
9. Northhoff, G. (2011). *Neuropsychanalysis in Practice: Brain, Self and Objects.* 1(1): 369. Baum, Martin Green, C.
Published, Oxford University Press, United Kingdom

Book Chapters

1. Northhoff, G.(2016). Is Depressive Rumination Rational?. Tzu-Wei Hung and Timothy J. Lane (Eds). *Rationality: Constraints and Contexts.* (V0)
Published, Academic Press, United States
2. Georg Northhoff, et al.(2016). Does Task-Evoked Activity Entail Consciousness in Vegetative State? "Neuronal-Phenomenal Inference" versus "Neuronal-Phenomenal Dissociation". Michele Farisco, Kathinka Evers. *Neurotechnology and Direct Brain Communication.*
Published, Routledge, United States

3. Northoff, G.(2016). Cultural Neuroscience and Neurophilosophy: Does the neural code allow for the brain's enculturation?. J. Chia, S-C., L, R. Seligman, R. Turner (Eds). The Oxford Handbook of Cultural Neuroscience.
Published, Oxford University Press, United States
4. Northoff, G.(2015). How the Self is Altered in Psychiatric Disorders. A Neurophenomenal Approach. Kirmayer, L., Lemelson, R., Cummings, C.A.Re-Visioning Psychiatry Cultural Phenomenology, Critical Neuroscience and Global Mental Health. : 81-116.
Published, Cambridge University Press, United States
5. Lane, T., Northoff, G.(2015). Are depressive ruminations rational?. Lane, T., and Hung, T.W.Rationality: Constraints and Contexts.
Published, Elsevier, United States
6. Northoff, G.,. (2015). Is free will an observer-based concept rather than a brain-based one? A critical neuroepistemological account. Glannon, Walter. Free Will and the Brain. Neuroscientific, Philosophical, and Legal Perspectives. (0)
Published, Cambridge University Press, United Kingdom
7. Northoff, G.(2013). Neurophilosophy. Galizia, C.G. & Lledo, P.M.Neurosciences, Galizia, C.G. & Lledo, P.M. (Eds.). : 99-123.
Published, Springer-Verlag, Germany, Germany
8. Northoff, G.(2012). Functional and Empirical Presuppositions in Russell and Panksepp: Neural Predispositions of Affect. Zachar, P. & Ellis, R.D. (Eds). Categorical Versus Dimensional Models of Affect: A seminar on the Theories of Panksepp and Russell. : 321-329.
Published, John Benjamins, Philadelphia, PA, United States
9. Northoff, G.(2011). Psychotherapie und Gehirnaktivitat. Shubert, C. (Ed). Psychoneuroimmunologie und Psychotherapie, Shubert, C. (Ed). : 33-54.
Published, Schattauer, Stuttgart, Germany, Germany
10. Northoff, G.(2011). Brain and Religion: What are the Neuronal and Neuro-epistemic Predispositons of Religious Belief?. Korsch, D., Griffioen, A.L. (Eds). Interpreting Religion. : 55-78.
Published, Mohr Siebeck, Tübingen, Germany, Germany
11. Northoff, G.(2011). Neurobiologische Grundlagen des phänomenalen Selbstbewusstseins. Schiepek, G. (Ed). Neurobiologie de Psychotherapie. : 12-37.
Published, Schattauer, Stuttgart, Germany, Germany

Presentations

1. Northoff, G.(2017). The brain's spontaneous activity- Key to self and consciousness.Japanese Society for Neuroscience., Japan
Main Audience: General Public
Invited?: Yes, Keynote?: Yes
2. Northoff, G.(2017). What the brain's spontaneous activity can tell us about self and its mental health.Canadian College for Neuroscience and Psychopharmacology (CCNP), Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes
3. (2016). Sense of agency and resting state variation in schizophrenia. Intl Conference on Actualization in Schizophrenia, Spain
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

4. Northoff, G.(2016). The brain's spontaneous activity and its self - Spatiotemporal psychopathology?.
Università Degli Studi Di Ferrara, Italy
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes
5. Northoff, G, Sibille, E, Daskalakis, J, Sanacora, G. (2015). Major depression: a GABA-ergic disorder? A multilevel translational perspective. Canadian College of Neuropsychopharmacology (CCNP), Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

Knowledge and Technology Translation

- 2017/9 - 2017/9 Adviser, Policy/Regulation Development
Activity Description: Adviser to the OECD and National Academy of Science in Washington/USA, Meeting 14/15.September, Policy and Regulation of Neurotechnology in Science and Society
- 2009/5 - 2017/9 Grant Reviewer, Consultation Service
Activity Description: Grant Reviewer for Great Britain (MRC) NetherlandsGranting Agency; CanadianInstitutes of Health Research (CIHR); SpainGranting Agency; PolishGranting Agency; AustriaGranting Agency; GermanyGranting Agency (CDFG); NationalResearch Foundation South Africa (NRF); NationalInstitute of Health (NIH/USA); BMBF(Germany); IsraelScience Foundation (ISF); SwissNational Foundation (SFN); CanadaFoundation for Innovation (CFI); OntarioMental Health Foundation (OMHF); NationalScience Foundation (NSF/USA); WelcomeTrust (Great Britain); Ministryof Research and Innovation, Early Research Awards Program
- 2014/4 - 2015/12 Academic Editor, Consultation Service
Activity Description: Advances in Research; British Journal of Pharmacology; Social Neuroscience; Molecular Psychiatry; Neuron; Neuropsychopharmacology; Personality and Individual Differences; Social Neuroscience; The World Journal of Biological Psychiatry; Brain Research Review; Psychotherapy and Psychosomatics, Human Nature; Neuropsychologia; Neuropsychoanalysis; Psychological Science; Neurobiology of Aging; American Journal of Psychiatry; Brain Research; Intl Journal of Clinical Psychopharmacology
- 2011/4 - 2015/12 Author, Community Engagement
Activity Description: Laybooks about Neuroscience and Psychiatry; Public Readings; Playwrite - "Gruesome Grey Pulp" with extensive national and international public readings
- 2011/5 - 2014/12 Guest Speaker, Policy/Regulation Development
Activity Description: Non academic knowledge dissemination to lay audience- European Commission/Parliament- Brussels, Belgin; Pontifical University, Rome Italy;

Student/Postdoctoral Supervision

Bachelor's Honours [n=1]

- 2016/5 - 2017/5 Sean Tanabe, University of Ottawa
Principal Supervisor Thesis/Project Title: Imaging Analysis and Consciousness
Present Position: 4th Year Undergrad

Master's Thesis [n=1]

2015/9 - 2017/6 Fumika Kondo, uOttawa - Dept of Cellular Neuroscience
Principal Supervisor Thesis/Project Title: Self and Resting state in Depression
Present Position: Master's Science - Student

Doctorate [n=3]

2015/1 - 2017/12 Diana Ghinda, University of Ottawa
Principal Supervisor Thesis/Project Title: Diagnostic markers in glioblastoma
Present Position: MD PhD resident

2014/1 - 2019/5 Paola Magioncalda - Italy, University of Genova, Italy - Dept of Medicine
Principal Supervisor Thesis/Project Title: Functional Connectivity and Neuronal Variability of Resting
State Activity in Bipolar Disorder - Reduction and Decoupling in Anterior Cortical
Midline Structures
Present Position: PhD student, UGenova

2014/1 - 2017/12 Annemarie Wolff, University of Ottawa
Principal Supervisor Thesis/Project Title: The neural correlates of moral reasoning in healthy participants and
the forensic population.
Present Position: Graduate Student

Post-doctorate [n=5]

2016/9 - 2017/9 Stefano Damiani, University of Pavia
Co-Supervisor Thesis/Project Title: Brain imaging and autism
Present Position: Post Doctorate

2013/3 - 2016/2 Marcello Costantini, University of Ottawa
Principal Supervisor Thesis/Project Title: Temporal Binding Window and the Rubber Hand
Present Position: Senior Lecturer, University of Essex, UK

2010/1 - 2012/1 Takashi Nakao - Japan, uOttawa
Principal Supervisor Thesis/Project Title: Neuro-electrophysiological correlates of internally - vs externally
guiding decision making
Present Position: Associate Professor, Hiroshima University, Japan

2009/1 - 2014/8 Pengmin Qin - China, uOttawa
Principal Supervisor Thesis/Project Title: Neural mechanisms of self and consciousness
Present Position: Full Professor, Guangzhou University, China

2005/9 - 2009/6 Martin Walter, University of Magdeburg, Germany
Principal Supervisor Thesis/Project Title: Brain imaging of emotions in healthy and psychiatric subjects
Present Position: Full Professor, University of Tübingen, Germany