RUIYANG GE, PhD

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EDUCATION & RESEARCH EXPERIENCE

2021 – present	Research Associate, Department of Psychiatry & Djavad Mowafaghian Centre for Brain Health, The University of British Columbia (UBC), Vancouver, Canada
2016 – 2020	Post-doctoral Research Fellow, Department of Psychiatry, UBC, Vancouver, Canada
2012 – 2015	Ph.D. in Computer Science, School of Artificial Intelligence & State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University (BNU), Beijing, P.R.C Thesis: "Sparse independent component analysis method and its application in functional magnetic resonance imaging (fMRI) based research"
2010 – 2012	M.S. in Computer Science, State Key Laboratory of Cognitive Neuroscience and Learning & IDG/McGovern Institute for Brain Research, BNU (transferred to a Ph.D. program, and finished all M.S. courses), Beijing, P.R.C Thesis: "Age-related alterations of brain network underlying the retrieval of emotional autobiographical memories: an fMRI study with independent component analysis" (this thesis was integrated to my Ph.D. thesis)
2006 – 2010	B.Eng. in Biomedical Engineering, School of Computer and Information Technology, Beijing Jiaotong University (BJTU), Beijing, P.R.C

RESEACH INTERESTS

Key words: *Computational Psychiatry; Developmental Neuroscience; Digital Mental Health; Neuroimaging; Neuroinformatics; Personalized Medicine*

My interdisciplinary research, spanning data science, neuroimaging, and developmental neuroscience, utilizes computational approaches to advance understanding of brain structure and function in health and disease. My commitment to studying human brain with neuroimaging techniques is reflected in 40 peer-reviewed publications (20 first-author, 5 senior-author) and track-record of funding and fellowship support. I have investigated neurophysiological signatures in youth with mood and anxiety disorders, as well as conducted clinical trials involving individuals with major depression with neuroimaging and neuromodulation techniques. I have mentored students from diverse backgrounds and actively participated in open-science initiatives. In my future endeavors, I aim to develop computational models and tools to advance mental health by identifying personalized markers to enhance diagnosis, treatment, and overall mental healthcare, with neuroimaging serving as a central tool in this pursuit.

AWARDS, FELLOWSHIPS & GRANTS

2024	Canadian Institutes of Health Research Project Grant (Co-Investigator)	CAD $504,901
2023	Stimulus-Child and Youth Mental Health Grant (Principal Investigator)	CAD $18,000
2022	Society of Biological Psychiatry (SOBP) Travel Fellowship Award	USD $2,000
2020	IMH Marshall Fellowship	CAD $75,000
2019	Innovation Fund Trainee Award, Djavad Mowafaghian Centre for Brain Health	CAD $10,000
2019	Outstanding Poster Award, The 3rd International Brain Stimulation Conference	USD $500

2014	National Scholarship for Distinguished Graduates	¥ 30,000
2013	First Prize Academic Scholarship, Beijing Normal University	¥ 15,000
2012	Academic Scholarship, State Laboratory of Cognitive Neuroscience and Learning	¥ 2,000
2012	Scholarship of Excellent Contribution to Public Interest/Social Work, BNU	¥ 500
2011	Innovative Artwork of the Brain and Lab, BNU	¥ 300
2007-2010	Academic Excellence Scholarship, BJTU	¥ 4,800

SUPERVISION EXPERIENCE

I have mentored undergraduate and graduate students; asterisks (*) indicate those for whom I acted as their primary mentor.

✧ Undergraduate Students

Dates	Name; Affiliation	Output(s)
Jan. 2023 – *present*	Hao Qi Cui*; UBC Computer Science	https://centilebrain.org; 📄
Nov 2021 – May 2022	Shiyu Chen*; UBC Computer Science	https://centilebrain.org; 📄
Sept 2021 – May 2022	Yi Xuan Qi*; UBC Computer Science	https://centilebrain.org; 📄
Sept 2021 – May 2022	Yuetong Yu*; UBC Math	https://centilebrain.org; 📄
Jan 2021 – May 2021	Chuntong Gao*; UBC Computer Science	https://centilebrain.org; 📄
Jan 2021 – May 2021	Yunan Fan*; UBC Math	https://centilebrain.org; 📄
Dec 2019 – May 2020	Tyler Keeling*; UBC Computer Science	📄
Dec 2019 – May 2020	Shiqing Ding*; UBC Math	📄
Sept 2017 – May 2018	Xiang Liu; UBC Computer Science	📄 & 📄
Sept 2017 – May 2018	Paul Kot; UBC Physics	📄
Sept 2013 – May 2014	Jipeng Zhang; BNU Computer Science	📄
Sept 2013 – May 2014	Yubao Wang; BNU Computer Science	📄

✧ Graduate Students

Dates	Name; Affiliation	Outputs
Sep 2022 – *present*	Yuetong Yu; UBC Psychiatry	📄
Sep 2019 – Jan 2020	Yanmei Shen; The Second Xiangya Hospital, Central South University, P.R.C	📄

PROFESSIONAL EXPERIENCE

✧ Co-Founder   The Translational Neuroimaging Educational Program (https://translational-neuro.org)

✧ Editorial Boards   *Associate Editor:* Mental Health Science

Editorial Board Member: BMC Psychiatry; npj Mental Health Research;

Guest Editor: BMC Neurology

Review Editor: Frontiers in Neuroimaging/Neuroscience/Psychiatry

✧ Co-Organizer   Social Event of Chinese Young Scholars @ 2023 OHBM Annual Meeting

✧ Peer Review

Journals   Biological Psychiatry; BJPsych Open; BMC Psychiatry; BMJ Open; Brain and Behavior; Brain Imaging and Behavior; Brain Stimulation; Brain Structure and Function; Computational and Mathematical Methods in Medicine; Frontiers in Aging Neuroscience; Frontiers in Human Neuroscience; Frontiers in Psychiatry; Human Brain Mapping; IEEE Journal of Biomedical and Health Informatics; IEEE Transactions on

Neural Systems and Rehabilitation Engineering; Journal of Affective Disorders; Journal of Affective Disorders Reports; Journal of Medical Imaging and Health Informatics; Journal of Neuroscience Methods; Metabolic Brain Disease; Nature Mental Health; NeuroImage; Neuropsychologia; Neuropsychopharmacology; Neuroscience and Biobehavioral Reviews; Psychiatry Research; Psychiatry and Clinical Neuroscience; Psychological Medicine; Quantitative Imaging in Medicine and Surgery; Scientific Reports; Schizophrenia Bulletin

Conferences   Annual Meeting of Organization for Human Brain Mapping (OHBM; years 2017-2024)

The 5th International Conference on Biomedical Engineering and Biotechnology, 2017

❖ <u>Membership</u>   Society of Biological Psychiatry; Organization of Human Brain Mapping

❖ <u>Examining</u> <u>Committee</u>   Honor thesis for Farhad Ghaseminejad, April 2018, UBC

TEACHING EXPERIENCE

❖ <u>Lecturer</u>   Undergraduate Course, School of Artificial Intelligence, BNU

Spring Semester 2014   Course: Fundamentals of Digital Electronics

Fall Semester 2013   Course: Fundamentals of Digital Electronics

❖ <u>Teaching Assistant:</u>   Undergraduate Course, School of Artificial Intelligence, BNU

Fall Semester 2011   Course: Fundamentals of Digital Electronics

❖ <u>Workshop/Symposium Instructor</u>   IDG/McGovern Institute for Brain Research, Beijing, P.R.C

June 2012   Functional Connectivity and Networks Analysis Methods Workshop

Oct 2013   The First Real-time Functional MRI Symposium, International Symposium on Frontiers in Functional Brain Imaging, Beijing, P.R.C

FULL PBLICATION LIST (PEER-REVIEWED)

❖ *Manuscripts in revision/under review (¶mentored trainee)*

2024   Hopkins William D, **Ge R**, Frangou S. Brain age gap is associated with early rearing experiences and cognitive abilities in captive chimpanzees.

❖ *Journal Articles (¶mentored trainee)*

2024   **Ge R**, Yu Y¶, Qi Y. X¶, Y Fan¶, S Chen¶, C Gao¶, et al., Thompson P, Frangou S. Normative modeling of brain morphometry across the lifespan using CentileBrain: algorithm benchmarking and model optimization. *Lancet Digit Health*. PMID: 38395541.

2024   **Ge R**, Ching C.R.K, Bassett A.S., et al., Thompson P, Vila-Rodriguez F, Bearden C. Source-based Morphometry Reveals Structural Brain Pattern Abnormalities in 22q11.2 Deletion Syndrome. *Hum Brain Mapp*. PMID: 38224541.

2024   Yu Y¶, Cui H¶, et al., Thompson P, Frangou S, **Ge R**. Brain-age prediction: systematic evaluation of site effects, and sample age range and size. *Hum Brain Mapp*. PMID: 38949537.

2024   Kapogiannis D, Manolopoulos A, Mullins R, Avgerinos K, Delgado-Peraza F, Mustapic M, Nogueras-Ortiz C, Yao P.J., Pucha P.A., Brooks J, Chen Q, Haas S, Cookson M.R., **Ge R**, Frangou S, Egan J, Mattson M.P. Brain responses to intermittent fasting and the healthy living diet in older adults. *Cell Metab*. PMID: 38901423.

2024   Jiang T, Song S, Zhao S, Tian X, Zhang M, Feng J, **Ge R.** Neurophysiological effects of cognitive behavioral therapy in social anxiety: An ERP study using a dot-probe task. *J Behav Ther Exp Psychiatry*. PMID: 39142095.

2024   Haas S.S., **Ge R**, Agartz I, et al., Kahn R.S., Corcoran C.M., Frangou S, and the ENIGMA Clinical High

Risk for Psychosis Working Group. Normative modeling of brain morphometry in Clinical High-Risk for Psychosis. *JAMA Psychiatry*. PMID: 37819650.

2024   Song S, Liu A, Gao Zeyuan, Tian X, Zhu L, Shang H, Gao S, Zhang M, Zhao S, Xiao G, Zheng Y, **Ge R**. Event-related alpha power response in early stage of facial expression processing in social anxiety: influence of language context. *Psychophysiol*. PMID: 37817450.

2023   **Ge R**, Sassi R, Yatham L.N., Frangou S. Neuroimaging profiling identifies distinct brain maturational subtypes of youth with mood and anxiety disorders. *Mol Psychiatry*. PMID: 36577839.

2023   Tan V, Jeyachandra J, **Ge R**, Dickie E.W., Gregory E, Vanderwal T, Vila-Rodriguez F, Hawco C. Subgenual cingulate connectivity as a treatment predictor during low-frequency right dorsolateral prefrontal rTMS: A concurrent TMS-fMRI study. *Brain Stimul*. PMID: 37543171.

2023   Torres I.J., **Ge R**, McGirr A, Vila-Rodriguez F, Ahn S, Basivireddy J, Walji N, Frangou S, Lam R.W., Yatham L.N. Effects of intermittent theta burst transcranial magnetic stimulation on cognition and hippocampal volumes in bipolar depression. *Dialogues Clin Neurosci*. PMID: 36924413.

2023   Chakrabarty T, Frangou S, Torres I.J., **Ge R**, Yatham LN. Brain age and cognitive functioning in first-episode bipolar disorder. *Psychol Med*. PMID: 35875930.

2022   **Ge R**, Humaira A, Gregory E, Alamian G, MacMillan E.L., Barlow L, Todd R, Nestor S, Frangou S, Vila-Rodriguez F. Predictive value of acute neuroplastic response to rTMS in treatment outcome in depression: A concurrent TMS-fMRI trial. *Am J Psychiatry*. PMID: 35582784.

2022   Song S, Zhao S, Jiang T, Li S, Zhang M, Ren W, Zheng Y, **Ge R**. Positive attention bias in high socially anxious individuals: Evidence from an ERP study. *J Affect Disord*. PMID: 36162660.

2022   Shen Y[¶], Gao X, Huang C, Luo X, **Ge R**. Decreased gray matter volume is associated with theory of mind deficit in adolescents with schizophrenia. *Brain Imaging Behav*. PMID: 35060009.

2022   Haas S. S, **Ge R**, Sanford N, Modabbernia A, Reichenberg A, Whalley H.C., Kahn R.S., Frangou S. Accelerated global and local brain aging differentiate cognitively impaired from cognitively spared patients with schizophrenia. *Front Psychiatry*. PMID: 35815015.

2022   Sanford N, **Ge R**, Antoniades M, Modabbernia A, Haas S. S, Whalley H.C., Galea L, Popescu S.G., Cole J.H., Frangou S. Sex differences in predictors and regional patterns of brain age gap estimates. *Hum Brain Mapp*. PMID: 35790053.

2021   **Ge R**, Hassel S, Arnott S.R., Davis A.D., Harris J.K., Zamyadi M, Milev R, Frey B.N., Strother S.C., Müller D.J., Rotzinger S, MacQueen G.M., Kennedy S.H., Lam R.W., Vila-Rodriguez F. Structural covariance pattern abnormalities of the insula in major depressive disorder: A CAN-BIND study report. *Prog Neuropsychopharmacol Biol Psychiatry*. PMID: 33296696.

2021   **Ge R**, Liu X[¶], Long D, Frangou S, Vila-Rodriguez F. Sex effects on cortical morphological networks in healthy young adults. *NeuroImage*. PMID: 33711482.

2021   **Ge R**, Gregory E, Wang J, Ainsworth N, Jian W, Yang C, Wang G, Vila-Rodriguez F. Magnetic seizure therapy is associated with functional and structural brain changes in MDD: Therapeutic versus side effect correlates. *J Affect Disord*. PMID: 33676262.

2021   **Ge R**, Ding S[¶], Keeling T[¶], Honer WG, Frangou S, Vila-Rodriguez F. SS-Detect: Development and validation of a new strategy for source-based morphometry in multiscanner studies. *J Neuroimaging*. PMID: 33270962.

2021   **Ge R**, Alamian G, Humaira A, Gregory E, MacMillan E.L., Barlow L, Vila-Rodriguez F. Implementation of a TMS-fMRI system: a primer. *bioRxiv*.

2021   Danilewitz M, Gao S, Salehinejad M.A., **Ge R**, Nitsche M.A., Vila-Rodriguez F. Effect of combined yoga and transcranial direct current stimulation intervention on working memory and mindfulness. *J Integr Neurosci*. PMID: 34258935.

2021   **Ge R**, Downar J, Blumberger D.M., Daskalakis Z.J., Vila-Rodriguez F. Functional connectivity of the anterior cingulate cortex predicts treatment outcome for rTMS in treatment-resistant depression at 3-month follow-up. *Brain Stimul*. PMID: 31668646.

2020   Gregory E, Torres I.J., **Ge R**, Blumberger D.M., Downar J, Daskalakis Z.J., Lam R.W., Vila-Rodriguez F. Predictors of cognitive impairment in treatment-resistant depression. *J Affect Disord*. PMID: 32663992.

2020   Wang J, Vila-Rodriguez F, **Ge R**, Gao S, Gregory E, Jiang W, Yang C, Wang G. Accelerated magnetic seizure therapy (aMST) for treatment of major depressive disorder: A pilot study. *J Affect Disord*. PMID: 32056753.

2019   **Ge R**, Kot P[¶], Liu X[¶], Lang DJ, Wang J.Z., Honer W.G., Vila-Rodriguez F. Parcellation of the human hippocampus based on gray matter volume covariance: Replicable results on healthy young adults. *Hum Brain Mapp*. PMID: 31115118.

2019   **Ge R**, Torres I.J., Brown J.J., Gregory E, McLellan E, Downar J., Blumberger D.M., Daskalakis Z.J., Lam R.W., Vila-Rodriguez F. Functional disconnectivity of the hippocampal network and neural correlates of memory impairment in treatment-resistant depression. *J Affect Disord*. PMID: 31060011.

2019   **Ge R**, Downar J, Blumberger D.M., Daskalakis Z.J., Lam R.W., Vila-Rodriguez F. Structural network integrity of the central executive network is associated with the therapeutic effect of rTMS in treatment resistant depression. *Prog Neuropsychopharmacol Biol Psychiatry*. PMID: 30685322.

2019   Vila-Rodriguez F, **Ge R**, Long D. Interleaved transcranial magnetic stimulation and functional magnetic resonance imaging: A Translational Tool. *Clin Pharmacol Ther*. PMID: 31412135.

2019   Sporn L, MacMillan E.L., **Ge R**, Greenway K, Vila-Rodriguez F, Laule C. Longer repetition time proton MR spectroscopy shows increasing hippocampal and parahippocampal metabolite concentrations with aging. *J Neuroimaging*. PMID: 31273871.

2017   **Ge R**, Blumberger D.M., Downar J, Daskalakis Z.J., Tham J.C.W., Lam R.W., Vila-Rodriguez F. A sparse representation-based method for parcellation of the resting brain and its application to treatment-resistant major depressive disorder. *J Neurosci Methods*. PMID: 28739164.

2017   **Ge R**, Blumberger D.M., Downar J, Daskalakis Z.J., Dipinto A.A., Tham J.C.W., Lam R.W., Vila-Rodriguez F. Abnormal functional connectivity within resting-state networks is related to rTMS-based therapy effects of treatment resistant depression: A pilot study. *J Affect Disord*. PMID: 28460314.

2016   **Ge R**, Wang Y[¶], Zhang J[¶], Yao L, Zhang H, Long Z. Improved FastICA algorithm in fMRI data analysis using the sparsity property of the sources. *J Neurosci Methods*. PMID: 26880161.

2015   **Ge R**, Yao L, Zhang H, Long Z. A two-step super-Gaussian independent component analysis approach for fMRI data. *NeuroImage*. PMID: 26057592.

2015   **Ge R**, Zhang H, Yao L, Long Z. Motor imagery learning induced changes in functional connectivity of the default mode network. *IEEE Trans Neural Syst Rehabil Eng*. PMID: 25014958.

2014   **Ge R**, Fu Y, Wang D, Yao L, Long Z. Age-related alterations of brain network underlying the retrieval of emotional autobiographical memories: an fMRI study using independent component analysis. *Front Hum Neurosci*. PMID: 2517728.

2014   Hui M, Zhang H, **Ge R**, Yao L, Long Z. Modulation of functional network with real-time fMRI feedback training of right premotor cortex activity. *Neuropsychologia*. PMID: 25058055.

2014   Zhang H, Long Z, **Ge R**, Xu L, Jin Z, Yao L, Liu Y. Motor imagery learning modulates functional connectivity of multiple brain systems in resting state. *PLoS One*. PMID: 2446557.

✧ *Conference Articles*

2018   Wang N, Yan H, Yang Yang Y, **Ge R**. A novel spatial-spectra dynamics-based ranking model for sorting time-varying functional networks from single subject fMRI data. *The 3rd International Conference on Intelligence Science*, Beijing, China, November 2-5, 2018.

2015   **Ge R**, Zhang H, Yao L, Wu X, Long Z. Over-complete analysis for resting-state fMRI Data. *The 5th International Conference on Cognitive Neurodynamics*, Sanya, China, June 2-7, 2015.

✧ *Bibliography on PubMed:* https://www.ncbi.nlm.nih.gov/myncbi/ruiyang.ge.1/bibliography/public/

Conference Abstracts & Posters (peer-reviewed)

2023   Haas S, **Ge R**, Jalbrzikowski M, Hernaus D, Kahn RS, Corcoran C, Frangou S. Normative modeling of brain morphometry in clinical high-risk for psychosis. *The 78th Society of Biological Psychiatry Annual Meeting*, San Diego, USA.

2022   **Ge R**, Yu Y, Qi Y, Fan Y, New F, Thompson P, Frangou S. Optimizing normative models for regional subcortical volumes. *Annual Meeting of the Organization for Human Brain Mapping*, Glasgow, UK.

2022   **Ge R**, Modabbernia A, Frangou S. Neuroanatomical Subgroups in Juvenile Mood and Anxiety Disorders. *Annual Meeting of the Organization for Human Brain Mapping*, Glasgow, UK.

2022   **Ge R**, Modabbernia A, Frangou S. Neuroanatomical subgroups in juvenile mood and anxiety disorders. *The 77th Society of Biological Psychiatry Annual Meeting*, New Orleans, USA.

2022   Haas S, **Ge R**, Modabbernia A, Reichenberg A, Whalley H, Kahn R, Frangou S. Multimodal Neuroimaging Characteristics of Cognitive Subgroups of Early Psychosis. *Annual Meeting of the Organization for Human Brain Mapping*, Glasgow, UK.

2022   Sanford N, **Ge R**, Frangou S. Localized sex differences in anatomical brain-age estimates. *Annual Meeting of the Organization for Human Brain Mapping*, Glasgow, UK.

2022   Haas S, **Ge R**, Sanford N, Modabbernia A, Reichenberg A, Whalley H, Kahn RS, Frangou S. Local and global brain ageing in cognitive subgroups of early psychosis. *The 77th Society of Biological Psychiatry Annual Meeting*, New Orleans, USA.

2022   Sanford N, **Ge R**, Frangou S. Sex differences in regional patterns of brain-age-gap estimates. *The 77th Society of Biological Psychiatry Annual Meeting*, New Orleans, USA.

2022   Haas S, **Ge R**, Kahn RS, Jalbrzikowski M, Hernaus D, Corcoran C, Frangou S. Normative modelling of brain morphometry in individuals at clinical high-risk for psychosis from the ENIGMA CHR Working Group. *The 62nd American College of Neuropsychopharmacology Annual Meeting*, Phoenix, USA.

2021   **Ge R**, Gregory E, Humaira A, Todd R, Nestor S, Frangou S, Vila-Rodriguez F. Perturbation of whole brain functional connectivity allows individual prediction of rTMS therapeutic effect in treatment-resistant depression. *Annual Meeting of the Organization for Human Brain Mapping*, online.

2021   Torres I, McGirr A, Vila-Rodriguez F, **Ge R**, Frangou S, Yatham L. Effects of intermittent theta burst stimulation on cognitive functioning and hippocampal volumes in bipolar depression. *The 23rd Annual Conference of the International Society for Bipolar Disorders*, online.

2020   **Ge R**, Downar J, Blumberger D, Daskalakis Z, Vila-Rodriguez F. rTMS treatment alters the dynamics between functional networks in treatment-resistant depression. *Annual Meeting of the Organization for Human Brain Mapping*, online.

2019   **Ge R**, Downar J, Blumberger D, Daskalakis Z, Lam R, Vila-Rodriguez F. Long-term effects of rTMS on the functional brain networks in treatment-resistant depression. *Annual Meeting of the Organization for Human Brain Mapping*, Rome, Italy.

2019   **Ge R**, Downar J, Blumberger DM, Daskalakis Z, Lam R, Vila-Rodriguez F. Long-term effects of rTMS on the functional brain networks in treatment-resistant depression. *The 3rd International Brain Stimulation Conference*, Vancouver, Canada.

2019   Sporn L, MacMillan E, **Ge R**, Humaira A, Barlow L, Laule C, Vila-Rodriguez F. Initial observations of position-dependent B0 distortions in a concurrent TMS/MRS phantom experiment. *Annual Meeting of the International Society for Magnetic Resonance in Medicine*, Montreal, Canada.

2018   **Ge R**, Torres I, Brown J, MacMillan E, Gregory E, Downar J, Blumberger D, Daskalakis Z, Lam R, Vila-Rodriguez F. Functional disconnection of the hippocampal networks in major depressive disorder. *Annual Meeting of the Organization for Human Brain Mapping*, Singapore.

2018   **Ge R**, Kot P, Liu X, Honer W, Lang D, Vila-Rodriguez F. Parcellation of the human hippocampus based on gray matter volume covariance: a replication study. *Annual Meeting of the Organization for Human Brain Mapping*, Singapore.

2018 Vila-Rodriguez F, Downar J, Blumberger DM, **Ge R**. Anterior cingulate cortex connectivity and treatment response prediction to rTMS in depression. *The 73rd Society of Biological Psychiatry Annual Meeting*, New York, USA.

2017 **Ge R**, Downar J, Blumberger D, Daskalakis Z, Tham J, Lam R, Vila-Rodriguez F. Altered hippocampal functional networks in treatment-resistant depression. *Annual Meeting of the Organization for Human Brain Mapping*, Vancouver, Canada.

2017 **Ge R**, Honer W, Lang D, Barr A, Northcott C, Vila-Rodriguez F. Parcellation of the human hippocampus based on gray matter volume covariance. *Annual Meeting of the Organization for Human Brain Mapping*, Vancouver, Canada.

2017 **Ge R**, Dipinto A, Barlow L, Macmillan E, Mackay A, Alfonso M, Vila-Rodriguez F. A primer on developing interleaved transcranial magnetic stimulation with functional MRI capability: the UBC experience. *The 2nd International Brain Stimulation Conference*, Barcelona, Spain.

2017 Danilewitz M, Pang C, Aur D, Shalbaf R, **Ge R**, Brown J, MacMillan E, Vila-Rodriguez F. The acute effects of a combined yoga and transcranial direct current stimulation on neurophysiological markers: preliminary data. *The 2nd International Brain Stimulation Conference*, Barcelona, Spain.

2016 **Ge R**, Dipinto A, Barlow L, MacMillan E, MacKay A, Alfonso M, Vila-Rodriguez F. The methodology of developing interleaved TMS with fMRI at UBC. *The Society for Neuroscience Annual Meeting*, San Diego, USA.

SELECTED TALKS

May 2024 "*Normative modeling of brain morphometry across the lifespan using CentileBrain*" at the 79th Society of Biological Psychiatry Annual Meeting

Mar 2024 "*Brain-age prediction with brain morphometry*" at MR Seminar Series, Department of Radiology, The University of British Columbia, Vancouver, BC, Canada

Dec 2023 "*CentileBrain models: An introduction*" at the Translational Neuroimaging Educational Program

June 2023 "*Normative modeling with CentileBrain: Algorithm benchmarking and model optimization*" at Department of Psychiatry Research Day, University of British Columbia, Vancouver, BC, Canada

June 2023 "*Mapping Changes of Human Brain Structures Across the Human Lifespan*" at the 4th OHBM Multilingual Kids Live Review – Mandarin Section

Mar 2023 "*Normative modeling of brain morphometry across the lifespan using CentileBrain*" at University Medical Center Groningen, Groningen, Netherlands

Feb 2023 "*Predictive value of the MRI techniques for treatment outcomes of depression with rTMS*" at National Clinical Research Center for Mental Disorders and Department of Psychiatry, The Second Xiangya Hospital of Central South University, Changsha, P.R.C

Jan 2023 "*Neuroimaging profiling identifies distinct brain maturational subtypes of youth with mood and anxiety disorders*" at State Key Lab of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, P.R.C

Dec 2022 "*Normative modeling of brain morphometry across the lifespan based on big neuroimaging data*" at Institute of Psychology, Chinese Academy of Science, Beijing, P.R.C

June 2021 "*Acute functional connectivity changes induced by repetitive transcranial magnetic stimulation predict therapeutic response in treatment-resistant depression*" at Department of Psychiatry Research Day, University of British Columbia, Vancouver, BC, Canada

Jan 2021 "*Brain functional changes induced by repetitive transcranial magnetic stimulation*" at Chinesisch-Deutsche Gesellschaft für Translationale Medizin, Germany

Jan 2021	"*Structural brain networks based on source-based morphometry*" at Institute of Psychological Sciences, Hangzhou Normal University, Hangzhou, P.R.C
June 2018	"*Structural and functional neural correlates of transcranial magnetic stimulation in major depression*" at Department of Psychiatry, Sir Run-Run Shaw Hospital, Zhejiang University School of Medicine, Hangzhou, P.R.C
Dec 2017	"*Functional disconnection of the hippocampal sub-regions and its correlates to cognitive outcomes in treatment-resistant major depressive disorder*" at Neuro-Seminar at Centre for Brain Health, The University of British Columbia, Vancouver, BC, Canada
May 2016	"*Baseline functional brain activity/circuits are related to improvements following TMS-based treatment for major depressive disorder*" at Department of Psychiatry Research Day, University of British Columbia, Vancouver, BC, Canada