BIOGRAPHICAL SKETCH

NAME: Qiu, Anqi

POSITION TITLE:

1. Professor, global STEM scholar, Department of Health Technology and Informatics, the Hong Kong Polytechnic University
2. Adjunct Professor, Department of Biomedical Engineering, the Johns Hopkins University

EMAIL: an-qi.qiu@polyu.edu.hk

EDUCATION:

INSTITUTE	DEGREE	COMPLETION DATE	FIELD OF STUDY
Johns Hopkins University	Ph.D.	09/2006	Electrical and Computer Engineering
Johns Hopkins University	Master	05/2005	Applied Mathematics and Statistics
University of Connecticut	Master	05/2002	Biomedical Engineering
Tsinghua University	B.S	07/1999	Biomedical Engineering

POSITIONS AND HONORS:

Positions and Employment

2023-	Professor, global STEM scholar, Department of Health Technology and Informatics, the Hong Kong Polytechnic University
2020-	Adjunct Professor, Department of Biomedical Engineering, the Johns Hopkins University
2022-2022	Board member, NUS Panel for Student Discipline
2019-2023	Deputy Head for Research & Enterprise, Department of Biomedical Engineering, National University of Singapore
2019-2023	Master, Eusoff Hall, the National University of Singapore
2013-2019	Associate Professor, Clinical Imaging Research Center, National University of Singapore
2017-2019	Dean's Chair, Associate Professor, Faculty of Engineering, National University of Singapore
2015-2018	Residential Fellow, Eusoff Hall, National University of Singapore
2008-2019	Adjunct Investigator, Singapore Institute for Clinical Sciences, Agency for Science, Technology and Research, Singapore
2007-2013	Assistant Professor, Department of Biomedical Engineering, Clinical Imaging Research Center, the National University of Singapore
2006-2007	Postdoctoral Fellow at F.M. Kirby Research Center and Center for Imaging Science, Kennedy Krieger Institute and the Johns Hopkins University

Organization

2023- **Chair, Global Emerging Leaders Program** Organization for Human Brain Mapping

In 2022, during a strategic planning meeting, A/P Qiu proposed the idea of fostering new leaders within the OHBM society, which was met with unanimous support from the council. This year, the "OHBM Global Emerging Leaders Program (GELP)" was launched with the goal of cultivating leadership skills among young researchers. The program aims to train and

develop the next generation of leaders who can effectively guide, sustain, and enhance the growth of OHBM. These emerging leaders are expected to possess a clear sense of purpose, driving the organization's direction and making a meaningful impact on its overall performance.

2019-2022 **Treasurer, Council** Organization for Human Brain Mapping

As OHBM council treasurer, A/P Qiu played a crucial role in the organization's operations and growth. Her responsibilities included managing the annual meeting, overseeing communications, and leading fundraising efforts. With an annual budget of approximately $1 million, she successfully transitioned the annual meeting to a virtual platform during the COVID-19 pandemic. A/P Qiu secured sponsorship from over 20 companies and provided financial support to Special Interest Groups. The communication team conducted interviews with renowned researchers, reaching a wider audience. Collaborating with an IT task force, her team invested in the virtual platform "SPACE," serving as OHBM's communication channel and conference platform. These efforts increased reserves by $1 million, positioning the organization well for the transition to post-pandemic activities.

2017-2019 **Program Committee** Organization for Human Brain Mapping

Professional Memberships

2006-	Member	Organization of Human Brain Mapping
2016-	Member	IEEE

Editorial Boards

2020-	Editor	Aperture Neuro
2018-	Editor	Neuroimage
2018-	Associate Editor	Frontiers in Human Neuroscience
2017-	Associate Editor	Frontiers in Neuroscience: Brain Imaging Methods
2012-2017	Review Editor	Frontiers in Neuroscience: Brain Imaging Methods

Services to International Bodies

2019-2021	Award Committee	Organization of Human Brain Mapping
2018-2020	Replication Award	Organization of Human Brain Mapping
2018	Award Selection Committee	The Royal Academy of Engineering
2017-2018, 2021	Review Panel	Swiss National Science Foundation
2010, 2013, 2018	Review Panel	UK Medical Research Council
2013	Board of Advisors	Convening on Measuring Cognition at the Bill & Melinda Gates Foundation

Services to National Bodies

2018-2019	Scientific Management Committee	Clinical Imaging Research Centre, National University of Singapore
2018-	Review Panel	National Medical Research Council, Ministry of Health
2019-	Review Panel	Grant Call on Precision Medicine And Personalised Therapeutics, NUS
2018	Review Panel	Intra-CREATE Seed Collaboration Grant
2012-2013	Evaluation Panel	NUS FRC grant
2012	Review Panel	NUHS Bedside and Bench Grant

2009-2011	External Liaison Committee Board	Singapore Bioimaging Consortium
2010	Review Panel	Start-up Bioimaging Research Grants for Young Investigators

Conference Organizer or Committees

06/2023	Session Chair, International Conference on Information Processing in Medical Imaging Conference, Argentina
10/2022	Organizer, Machine Learning and Its Applications, Singapore.
12/2021	Organizer, World Congress on Medical Physics and Biomedical Engineering, Singapore
09/2019	Scientific Committee, the 4th International Conference on Basic and Clinical Multimodal Imaging (BaCI), Xian, China.
10/2019	Area Chair, International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), Shenzhen
10/2019	Selection Panel of Young Scientist Award, International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), Shenzhen
02/2019	Paper Selection Committee, International Conference on Information Processing in Medical Imaging, Hongkong
06/2018	Organizer, Human Brain Mapping, Singapore
06/2018	Organizer, Non-standard Brain Image Analysis Methods, Singapore
06/2018	Organizer, Human Brain Mapping Hackathon, Singapore
08/2017	Organizer, the 1st NUS-PKU joint workshop: Deep Learning: Theory and Applications, Beijing
04/2017	Organizer, Special Session on Pediatric Neuroimaging, IEEE International Symposium on Biomedical Imaging, Melbourne
12/2016	Scientific program committee, the 16th International Conference on Biomedical Engineering, Singapore
05/2016	Organizer, Brain Development: Imaging Techniques and Applications, Singapore
07/2016	Organizer, Neuroimage Workshop, Singapore
10/2016	Program Committee, Simulation and Synthesis in Medical Imaging at International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), Istanbul
06/2015	Program committee, International Conference on Information Processing in Medical Imaging, Isle of Skye
03/2015	Symposium organizer, International Convention of Psychological Science (ICPS), Amsterdam
10/2014	Program committee, the 2nd Spatio-Temporal Image Analysis Workshop at International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), Boston
03/2014	Organizer, Symposium on Medical Imaging and Image Analysis, Singapore
06/2014	Technical program committee, International Conference on Biomedical Engineering, Beijing
12/2013	Program committee, International Conference on Biomedical Engineering, Singapore
05/2013	Program committee, International Conference on Complex Medical Engineering, Beijing
10/2013	Program committee, the 1st Spatio-Temporal Image Analysis Workshop at International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), Nice
05/2012	Program committee, IEEE International Conference on Mechatronics and Automation
05/2011	Program committee, IEEE International Conference on Complex Medical Engineering, Harbin
12/2009	Program committee, International symposium on early detection and rehabilitation technology of dementia, Okayama

Honors

2023 **Honourable Mention of the Francois Erbsmann Prize**, International Conference on Information Processing in Medical Imaging, 2023, Argentina

The International Conference on Information Processing in Medical Imaging (IPMI) has a

strong reputation in the field of medical imaging. IPMI has been recognized as one of the premier conferences in the field since its inception in 1969. The conference features high-quality papers, keynote presentations by prominent researchers, and poster sessions to showcase the latest developments in the field. Commemorating his contribution as the conference founder, beginning with IPMI 1987 the Francois Erbsmann prize is awarded by the IPMI board at each conference to one young investigator for outstanding contribution to the field.

2019	**Finalist, Innovation & Entrepreneurship Competition for Overseas Talents**, Hangzhou
2016	**2016 Young Researcher Award of National University of Singapore**
2015	**Finalist, Loreal Singapore Award for Women in Science National Fellowships**
2013	**2013 Faculty Young Research Award**, National University of Singapore
2011	**Best Paper Award Finalist**, IEEE International Conference on Complex Medical Engineering
2010	**Young Investigator Award**, National University of Singapore
2009	**Invited Lecturer Award**, International Symposium on Early detection and rehabilitation technology of Dementia.

Invited Talks

International Conferences and Workshops

- Invited speaker, The 21st IEEE International School and Symposium on Medical Devices and Biosensors (MDBS) and the 14th International Symposium on Biomedical and Health Engineering (BHE), Hong Kong, 17-21 Dec 2023.
- **Keynote Speaker**, IEEE EMBS Data Science Conference, Malta, Dec 2023.
- **Keynote speaker**, the 6th annual event of Chinese Young Scholars for Human Brain Mapping, Montreal, Jul 24, 2023.
- Invited Speaker, Human Brain Mapping, Montreal, Jul 2023.
- **Keynote speaker**, HUman partnership with Medical Artificial intelligence (HUMAN.AI), Singapore, Jul 2023.
- Invited Speaker, the 25th-Anniversary Celebration of Center for Imaging Sciences, the Johns Hopkins University, Jun 2023.
- **Distinguished Speaker**, the 2022 International Conference on Data Science and Artificial Intelligence, China, Dec 2022.
- **Keynote Speaker**, Symposium on Topological Data Analysis for Biomedical Imaging, International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), Singapore 2022.
- Invited Speaker, the 2nd annual MINDS Workshop on Topological Data Analysis & Machine Learning (TDA & ML 2022), Pohang, Sept 2022.
- Invited Speaker, 2021 Medical Image Computing Seminar (MICS), online, Apr 2021.
- **Keynote Speaker**, the 5th International Conference of Human Brain Development (ICHBD), Beijing, Sept 2021.
- Invited Speaker, 2020 Sino-Singapore Summit for Digital Economy and Artificial Intelligence, online, Nov 2020.
- **Keynote Speaker**, 2020 Human Brain Mapping: Open Science, “Phenotypes, Genotypes & Voxels: A playground next to a nuclear power plant”, Montreal, Jun 2020.
- Invited Speaker, 2020 Human Brain mapping, “Population Neuroimaging Meets Genetics: Important Considerations and Possible Solutions with Data, Both Big and Small”, Montreal, Jun 2020.

- Invited Speaker, 2020 New Horizons in Human Brain Imaging Pacific Rim, Hawaii, Feb 2020.
- Invited Speaker, The 62th ISI World Statistics Congress 2019, Kuala Lumpur, Aug 2019.
- Invited Speaker, 2019 International Society for Magnetic Resonance in Medicine -- Pediatric Study Group, “Pediatric Neuroimaging Workshop”, Xi’an, Sept 2019.
- Invited Speaker, Human Brain Mapping, Rome, Jun 2019.
- Invited Speaker, The 5th Medical Imaging Computing Seminar, Nanjing, Jul 2018.
- Invited Speaker, Human Brain Mapping, Singapore, Jun 2018.
- Invited Speaker, Education course at Human Brain Mapping Conference, Singapore, Jun 2018.
- Invited Speaker, Brain Magnetic Resonance Imaging (MRI) Summit Forum, Beijing, Jun 25-26, 2018.
- **Keynote Speaker,** Young Scholar Forum of Molecular Imaging and Nuclear Medicine, Shanghai University, Apr 2018.
- Invited Speaker, the 6th ICCM CAM conference on Geometry and Imaging, Tsinghua University, Beijing, Dec 2017.
- Invited Speaker, the 3rd international conference on human brain development, integrating changing brains across life span, Nanning, Oct 2017.
- Invited Speaker, Workshop on Frame Theory and Sparse Representation for Complex Data, Singapore, May 29, 2017.
- Invited Speaker, Tsinghua Sanya International Mathematics Forum，“Mathematics and Statistics in Medical Imaging Applications and Big Data Integration Workshop", Sanya, Dec 2016.
- Invited Speaker, International Workshop on Mathematical Issues in Information Sciences (MIIS), Shenzhen, Dec 2016.
- Invited Speaker, International Society for Magnetic Resonance in Medicine (ISMRM), Singapore, May 2016.
- Invited Speaker, International Society for Magnetic Resonance in Medicine (ISMRM), “Understand White Matter Development Across LifeSpan”, Singapore, May 2016.
- Invited Speaker, International Conference of Psychological Science, “Biological Origin of Mental Illness: Evidence from Infant Brain Imaging and Genetics”, Amsterdam, March 2015.
- **Plenary Speaker,** the International Alzheimer's Disease Conference, Hong Kong, Jun 2014.
- **Keynote Speaker**, the 15th International Conference on Biomedical Engineering, Singapore, Dec 2013.
- Invited Speaker, International Symposium on Advancements in Neuroimaging, “HARDI Atlas Generation”, Madison, Jun 2012.
- Invited Speaker, KAIST ICC International Workshop on IT Convergence Technology, Daejeon, March 2011.
- Invited Speaker, Conference on Translational Strategies for Therapeutics Discovery Through Dementia Biomarkers, Singapore, Sep 2011.
- Invited Speaker, Focused Shape Group Workshop, London, May 2011.
- Invited Speaker, Focused Shape Group Workshop, “Statistics on Diffeomorphic Shapes”, London, May 2010.
- Invited Speaker, International Symposium on Early Detection and Rehabilitation Technology of Dementia, Japan, Dec 2009.
- Invited Speaker, International Symposium on Computational Medicine, Beijing, Nov 2009.
- Invited Speaker, Joint Statistical Meeting, Washington DC, Aug 2009.

- Invited Speaker, Institute for Pure and Applied Mathematics (IPAM) at UCLA, Summer School Program "Mathematics in Brain Imaging", Los Angeles, Jul 2008.
- Invited Speaker, Annual Asilomar Conference on Signals, Systems, and Computers, Asilomar, Nov 2007.
- Invited Speaker, Statistical and Applied Mathematical Sciences Institute (SAMSI) workshop, North Carolina, Jul 2007.
- Invited Speaker, International Workshop on Mathematical Foundations of Computational Anatomy (MFCA), Denmark, Oct 2006.
- Invited Speaker, Shape Space Workshop in Los Alamos National Laboratory, Los Alamos, Jul 2006.

National Conferences and Workshops

- Singapore Health Biomedical Congress, “Biological Origin of Mental Health: Evidence from Infant Brain Imaging and Genetics”, Sep 23-24, 2016.
- The Fourth Singapore Conference on Statistical Science, “Geodesic regression on orientation distribution functions”, Feb, 2014.
- A*STAR-Tan Tock Seng Hospital (TTSH) forum “Fast Forward – Innovations for Graceful Ageing”, 2013 Nov.
- Singapore-Sweden Bilateral Collaboration Workshop, “Brain Morphological Shape Markers for Alzheimer’s disease and Vascular Dementia”, Singapore, 2013 March.
- Takeda symposium on translational medicine, “Computational Functional Anatomy”, Jul. 2009.

Regional Conference and Workshops

- KAUST, “Statistics and Data Sciences Workshop”, Nov 12-14, 2018.
- the 3rd Qianjiang International Conference on Medical Imaging (QICMI), “Biological Origin of Mental Illness: Evidence from Infant Brain Imaging and Genetics”, 2016 May 13-15.
- Korean Human Brain Mapping Conference, “Biological Origin of Mental Illness: Evidence from Infant Brain Imaging and Genetics”, 2015 Nov.
- SNU-I2R-NUS Bioengineering Workshop, “Brain Morphological Shape Markers for Alzheimer’s disease and Vascular Dementia”, 2015 Jan.
- 16th Neuro Conference of China Radiology Society, “Image Markers in Aging and Dementia”, Wuhan, China, 2014 May.
- National University of Singapore, “2nd Translational Strategies for Therapeutics Discovery in Dementia meeting”, 2013 Feb.
- Diffusion Tensor Imaging and Brain Connectivity, “”, Seoul, Dec 2011.
- Korean Human Brain Mapping Society, “Computational Functional Anatomy”, Seoul, 2008 Nov.

International University Invited Talks

- National Institute of Health, “Nature and Nurture: Evidence from Neuroimage and Genetics”, Jun 2023.
- Cedar Sinai Medical Center, “Nature and Nurture for Brain Growth”, Jun 2023.
- University of Wisconsin at Madison, “Graph Convolutional Neural Network for Signal Processing and Classification”, Jun 2023.
- University of Technology Malaysia, “Phenotypes, Genotypes & Voxels: A playground next to a nuclear power plant”, Aug 17, 2019.
- University of Wisconsin at Madison, “Spectral Laplace-Beltrami Wavelets and Geometric Convolutional Neural Network for Signal Processing and Classification”, Feb 2019.

- Chinese Academy of Sciences, Institute of Biophysics, “Morphological Shapes and Functional Networks from Machine Learning to Deep Learning”, Aug 2017.
- Chinese Academy of Sciences, Institute of Psychology, “Biological Origin of Mental Illness: Evidence from Infant Brain Imaging and Genetics”, Aug 2017.
- KAIST, “Biological Origin of Mental Illness: Evidence from Infant Brain Imaging and Genetics”, Nov 2015.
- Jewish General Hospital at McGill University, “Manifold Learning for Brain Morphological Shapes”, Jun 2015.
- Ludmer Centre for Neuroinformatics and Mental Health, Douglas Mental Health University Institute, McGill University, Canada, “Biological Origin of Mental Illness: Evidence from Infant Brain Imaging and Genetics”, Nov 2014.
- McGill Neurology Institute, “Brain Morphological Shape Markers for Alzheimer’s disease and Vascular Dementia”, Nov 2014.
- Shanghai Jiaotong University, “Brain Morphological Shape Markers for Alzheimer’s disease and Vascular Dementia”, Jul 2014.
- University of Wisconsin at Madison, “Geodesic regression on orientation distribution functions”, May 2013.
- University of Wisconsin at Madison, “Workshop on Medical Image Analysis”, May 2013.
- Beijing Normal University, “Locally Linear Diffeomorphic Metric Embedding in Shape Learning and Modeling”, Dec 2012.
- Beijing Normal University, “Computational Functional Anatomy for Dementia”, Jan 2012.
- Merck Pharmaceuticals, “Computational Functional Anatomy for Dementia”, Jan 2012.
- Seoul National University, workshop on “Mathematical Methods in Medical Imaging”, Sept 2011.
- Academia Sinica, Taiwan, “Computational Functional Anatomy in Healthy Aging and Dementia”, Dec 2010.
- Seoul National University, “Computational Functional Anatomy”, Seoul, Oct 2009.
- Hanyan University, “Computational Functional Anatomy”, Seoul, Nov 2008.
- Tsinghua University, “Computational Functional Anatomy”, Beijing, Oct 2008.
- Duke-GMS, “Computational Functional Anatomy”, Singapore, Sept 2008.
- Department of Psychological Medicine at NUS, “Computational Functional Anatomy”, Singapore, Jan 2008.
- Center for Life Science at NUS, “Computational Functional Anatomy”, Singapore, Jan 2008.
- National University of Singapore, “Intrinsic and Extrinsic Analysis in Computational Anatomy”, Oct 2006.
- Washington University in St. Louis, “Computational Functional Anatomy”, Apr 2006.
- IMA workshop at University of Minnesota, “Computational Anatomy”, Apr 2006.
- University of California at Los Angeles, “Retinotopic Mapping and Linear Cortical Magnification Estimation in Primary Visual Cortex”, Feb 2006.
- ARO Workshop at Johns Hopkins University, “Cortical Thickness Variation of Planum Temporale in Bipolar and Schizophrenia”, Feb 2006.
- Nanyang Technological University, “Computational Anatomy”, Jan 2006.
- Singapore BioImaging Consortium, “Computational Anatomy”, Jan 2006.
- Capital University of Medical Sciences in China, “Surface-Based Analysis on Cortical Thickness”, Aug 2005.
- The Institute of Living at Hartford Hospital, “Localization of Cortical Thickness Differences and Functional Activation on the Cortical Surface”, May 2005.

Publications

Books

1. Sergey Kushnarev, Anqi Qiu, Laurent Younes, "Mathematics of Shapes and Applications", World Scientific, volume 37, 2019.

JOURNAL PAPERS

1. Chenye Shen, Chaoqiang Liu, **Anqi Qiu***, "Metabolism-Related Brain Morphology Accelerates Aging and Predicts Neurodegenerative Diseases and Stroke: a UK Biobank study", Translational Psychiatry, 13(1):233, 2023.
2. Jing Xia, Nanguang Chen, **Anqi Qiu***, "Multi-Level and Joint Attention Networks on Brain Functional Connectivity for Cross-Cognitive Prediction", Medical Image Analysis, accepted.
3. Jingwen Zhu, Daniel Margulies**, Anqi Qiu**, "White Matter Functional Gradients and Their Formation in Adolescence", Cerebral Cortex, accepted.
4. Guodong Liu, Chenye Shen, **Anqi Qiu***, "Amyloid-β Accumulation in Relation to Functional Connectivity in Aging: a Longitudinal Study", Neuroimage, 275:120146, 2023.
5. **Anqi Qiu***, Chaoqiang Liu, "Pathways link environmental and genetic factors with structural brain networks and psychopathology in youth", Neuropsychopharmacology, 48(7):1042-1051, 2023.
6. Jian Huang, Ai Peng Tan, Evelyn Law, Keith M Godfrey, **Qiu Anqi,** Lourdes Mary Daniel, Marielle Fortier, Kok Hian Tan, Jerry Kok Yen Chan, David Cameron-Smith, Yap Seng Chong, Shiao-Yng Chan, Johan G. Eriksson, Michael J Meaney, Jonathan Huang, "Maternal preconception circulating blood biomarker mixtures, child behavioural symptom scores and the potential mediating role of neonatal brain microstructure: the S-PRESTO cohort", Translational Psychiatry, 13(1):38, 2023.
7. Ann M. Alex, Claudia Buss, Elysia Poggi Davis, Gustavo de los Campos, Kirsten A. Donald, Damien A. Fair, Nadine Gaab, Wei Gao, John H. Gilmore, Jessica B. Girault, Karen Grewen, Nynke A. Groenewold, Benjamin L. Hankin, Jonathan Ipser, Shreya Kapoor, Pilyoung Kim, Weili Lin, Shan Luo, Elizabeth S. Norton, Thomas G. O'Connor, Joseph Piven, Anqi Qiu, Jerod M. Rasmussen, Michael A. Skeide, Dan J. Stein, Martin A. Styner, Paul M. Thompson, Laurie Wakschlag, Rebecca Knickmeyer, for the ENIGMA ORIGINs group, "Genetic Influences on the Developing Young Brain and Risk for Neuropsychiatric Disorders", Biological Psychiatry, 93(10):905-920, 2023.
8. Chaoqiang Liu, Fei Huang, **Anqi Qiu***, "Monte Carlo Ensemble Neural Network for the diagnosis of Alzheimer's disease", Neural Networks, 159:14-24, 2023.
9. Jingwen Zhu, **Anqi Qiu***, "Interindividual Variability in Functional Connectivity discovers differential development of Cognition and Transdiagnostic dimensions of Psychopathology in Youth", Neuroimage, 260:119482, 2022.
10. Jingwen Zhu, **Anqi Qiu***, "Chinese Adult Brain Atlas with Functional and White Matter Parcellation", Scientific Data, 9:352, 2022.
11. Richard AI Bethlehem, Jakob Seidlitz, Simon R White, Jacob W Vogel, Kevin M Anderson, Chris Adamson, Sophie Adler, George S Alexopoulos, Evdokia Anagnostou, Ariosky Areces-Gonzalez, DE Astle, B Auyeung, M Ayub, J Bae, G Ball, Simon Baron-Cohen, R Beare, SA Bedford, V Benegal, Frauke Beyer, J Blangero, M Blesa Cábez, JP Boardman, M Borzage, JF Bosch-Bayard, N Bourke, VD Calhoun, MM Chakravarty, C Chen, C Chertavian, G Chetelat, YS Chong, JH Cole, A Corvin, M Costantino, E Courchesne, F Crivello, VL Cropley, J Crosbie, N Crossley, M Delarue, Richard Delorme, S Desrivieres, GA Devenyi, MA Di Biase, R Dolan, KA Donald, G Donohoe, K Dunlop, AD Edwards, JT Elison, CT Ellis, JA Elman, L Eyler, DA Fair, E Feczko, PC Fletcher, P Fonagy, CE Franz, L

Galan-Garcia, A Gholipour, J Giedd, JH Gilmore, DC Glahn, IM Goodyer, PE Grant, NA Groenewold, FM Gunning, RE Gur, RC Gur, CF Hammill, O Hansson, T Hedden, A Heinz, RN Henson, Katja Heuer, J Hoare, B Holla, AJ Holmes, R Holt, H Huang, K Im, J Ipser, CR Jack, AP Jackowski, T Jia, KA Johnson, PB Jones, DT Jones, RS Kahn, H Karlsson, L Karlsson, R Kawashima, EA Kelley, S Kern, KW Kim, MG Kitzbichler, WS Kremen, F Lalonde, B Landeau, S Lee, J Lerch, JD Lewis, J Li, W Liao, C Liston, MV Lombardo, J Lv, C Lynch, TT Mallard, M Marcelis, RD Markello, SR Mathias, B Mazoyer, P McGuire, MJ Meaney, A Mechelli, N Medic, B Misic, SE Morgan, D Mothersill, J Nigg, MQW Ong, C Ortinau, R Ossenkoppele, M Ouyang, L Palaniyappan, L Paly, PM Pan, C Pantelis, MM Park, T Paus, Z Pausova, D Paz-Linares, A Pichet Binette, K Pierce, X Qian, J Qiu, A Qiu, A Raznahan, Timothy Rittman, A Rodrigue, CK Rollins, R Romero-Garcia, L Ronan, MD Rosenberg, DH Rowitch, GA Salum, TD Satterthwaite, Herma Lina Schaare, “Brain Charts for the Human Lifespan”, Nature, 604:525-533, 2022.

12. Aishah Abdul Rahman, Hong Kuang Tan, Soh Teng Loh, Adam Bin Abdul Malik; Kok Hian Tan; Peter D. Gluckman, Yap Seng Chong, Michael J. Meaney, **Anqi Qiu**, Anne Rifkin-Graboi, “Cognitive Flexibility in Preschoolers: A Role for the Late Frontal Negativity (LFN)”, Cognitive Development, 63:101200, 2022.
13. **Anqi Qiu***, Liyuan Xu, Chaoqiang Liu, for the Alzheimer's Disease Neuroimaging Initiative, “Predicting diagnosis 4 years prior to Alzheimer’s disease incident”, Neuroimage:Clinical, 34:102993, 2022.
14. Shi Yu Chan, Zi Yan Ong, Zhen Ming Ngoh, Yap Seng Chong, Juan Helen Zhou, Marielle V. Fortier, Lourdes Mary Daniel, **Anqi Qiu,** Michael J. Meaney, Ai Peng Tan, “Structure-function coupling within the reward network in preschool children predicts executive functioning in later childhood”, Developmental Cognitive Neuroscience, 55:101107,2022.
15. E Du, Shuhao, Shen, **Anqi Qiu**, Nanguang Chen, “Confocal laser speckle autocorrelation imaging of dynamic flow in microvasculature”, Opto-Electronic Advances, 5:210045,2022.
16. Shih-Gu Huang, Jing Xia, Liyuan Xu, **Anqi Qiu***, “Spatio-temporal directed acyclic graph learning with Attention Mechanisms on Brain Functional Time Series and Connectivity”, Medical Image Analysis, 77:102370, 2022.
17. Stella Tsotsi, Anne Rifkin-Graboi, Jessica L. Borelli, Yap Seng Chong, Birit Broekman, Michael Meaney, **Anqi Qiu***, “Neonatal Brain and Physiological Reactivity in Preschoolers: an initial investigation in an Asian sample”, Journal of psychiatric research, 146:219-227, 2022.
18. Dongtao Wei, Han Zhang, Birit FP Broekman, Yap-Seng Chong, Lynette P. Shek, Fabian Yap, Kok-Hian Tan, Peter D. Gluckman, Michael Meaney, Marielle V. Fortier, **Anqi Qiu***, “Cortical Development Mediates Association of Prenatal Maternal Depressive Symptoms and Child Reward Sensitivity: A Longitudinal Study”, Journal of the American Academy of Child & Adolescent Psychiatry, 61(3):392-401,2022.
19. Gau R, Noble S, Heuer K, Bottenhorn KL, Bilgin IP, Yang YF, Huntenburg JM, Bayer JMM, Bethlehem RAI, Rhoads SA, Vogelbacher C, Borghesani V, Levitis E, Wang HT, Van Den Bossche S, Kobeleva X, Legarreta JH, Guay S, Atay SM, Varoquaux GP, Huijser DC, Sandström MS, Herholz P, Nastase SA, Badhwar A, Dumas G, Schwab S, Moia S, Dayan M, Bassil Y, Brooks PP, Mancini M, Shine JM, O'Connor D, Xie X, Poggiali D, Friedrich P, Heinsfeld AS, Riedl L, Toro R, Caballero-Gaudes C, Eklund A, Garner KG, Nolan CR, Demeter DV, Barrios FA, Merchant JS, McDevitt EA, Oostenveld R, Craddock RC, Rokem A, Doyle A, Ghosh SS, Nikolaidis A, Stanley OW, Uruñuela E; Brainhack Community. “Brainhack: Developing a culture of open, inclusive, community-driven neuroscience”, Neuron, 109(11):1769-1175, 2021.

20. Levitis E, van Praag CDG, Gau R, Heunis S, DuPre E, Kiar G, Bottenhorn KL, Glatard T, Nikolaidis A, Whitaker KJ, Mancini M, Niso G, Afyouni S, Alonso-Ortiz E, Appelhoff S, Arnatkeviciute A, Atay SM, Auer T, Baracchini G, Bayer JMM, Beauvais MJS, Bijsterbosch JD, Bilgin IP, Bollmann S, Bollmann S, Botvinik-Nezer R, Bright MG, Calhoun VD, Chen X, Chopra S, Chuan-Peng H, Close TG, Cookson SL, Craddock RC, De La Vega A, De Leener B, Demeter DV, Di Maio P, Dickie EW, Eickhoff SB, Esteban O, Finc K, Frigo M, Ganesan S, Ganz M, Garner KG, Garza-Villarreal EA, Gonzalez-Escamilla G, Goswami R, Griffiths JD, Grootswagers T, Guay S, Guest O, Handwerker DA, Herholz P, Heuer K, Huijser DC, Iacovella V, Joseph MJE, Karakuzu A, Keator DB, Kobeleva X, Kumar M, Laird AR, Larson-Prior LJ, Lautarescu A, Lazari A, Legarreta JH, Li XY, Lv J, Mansour L S, Meunier D, Moraczewski D, Nandi T, Nastase SA, Nau M, Noble S, Norgaard M, Obungoloch J, Oostenveld R, Orchard ER, Pinho AL, Poldrack RA, **Qiu A**, Raamana PR, Rokem A, Rutherford S, Sharan M, Shaw TB, Syeda WT, Testerman MM, Toro R, Valk SL, Van Den Bossche S, Varoquaux G, Váša F, Veldsman M, Vohryzek J, Wagner AS, Walsh RJ, White T, Wong FT, Xie X, Yan CG, Yang YF, Yee Y, Zanitti GE, Van Gulick AE, Duff E, Maumet C., "Centering inclusivity in the design of online conferences-An OHBM-Open Science Perspective", Gigascience, 10(8):giab051, 2021.
21. Xing Y, Duan Y, P Indurkar P, **Qiu A**, Chen N., "Optical breast atlas as a testbed for image reconstruction in optical mammography", Scientific data, 8(1):257, 2021.
22. Jingwen Zhu**,** Han Zhang, Yap-Seng Chong, Lynette P. Shek, Peter D. Gluckman, Michael J. Meaney, Marielle V. Fortier, and **Anqi Qiu***, "integrated Structural and Functional Atlases of Asian Children from Infancy to Childhood", Neuroimage, 245:118716, 2021.
23. Ting-Yat Wong, Han Zhang, Tonya White, Liyuan Xu, **Anqi Qiu***, "Common functional brain networks between attention deficit and disruptive behaviors in youth", Neuroimage, 245:118732, 2021.
24. Dawn XP Koh, Mya Thway Tint, Peter D. Gluckman, Yap Seng Chong, Fabian KP Yap, Anqi Qiu, Johan G. Eriksson, Marielle V. Fortier, Patricia P. Silveira, Michael J. Meaney, Ai Peng Tan, "Association of increased abdominal adiposity at birth with altered ventral caudate microstructure", International Journal of Obesity, 45:2396-2403, 2021.
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161. Michael I. Miller, **Anqi Qiu,** "The Emerging Discipline of Computational Functional Anatomy", NeuroImage, 45(1):S16-S39, 2009.
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CONFERENCE PROCEEDINGS

1. Jinghan Huang, Moo K. Chung, Anqi Qiu, “Heterogeneous Graph Convolutional Neural Network via Hodge-Laplacian for Brain Functional Data”, IPMI, 2023.
2. Shih-Gu Huang, Ilwoo Lyu, Anqi Qiu, Moo K. Chung, “Fast Polynomial Approximation to Heat Diffusion in Manifolds”, MICCAI, 2019.
3. Mingzhen Tan, Anqi Qiu, “Multiresolution Diffeomorphic Mapping for Cortical Surface”, Information Process Med Imaging, 2015, 315-326.
4. Jia Du, Alvina Goh, **Anqi Qiu**, “Bayesian Atlas Estimation from High Angular Resolution Diffusion Imaging (HARDI)”, Geometric Science of Information 2013, (oral presentation).
5. Jia Du, A. Pasha Hosseinbor, Moo K. Chung, Barbara B. Bendlin, Gaurav Suryawanshi, Andrew L. Alexander, Anqi Qiu, “Diffeomorphic Metric Mapping of Hybrid Diffusion Imaging based on BFOR Signal Basis”, IPMI 2013, (Top conference in medical imaging analysis, acceptance rate is less than 25%, 38 poster presentations and 26 oral presentations, total 200 submission).
6. Xianfeng Yang, Alvina Goh, **Anqi Qiu*,** “Approximations of the Diffeomorphic Metric and their Applications in Shape Learning”, IPMI, 2011, (Top conference in medical imaging analysis, acceptance rate is less than 25%).
7. Jia Du, Alvina Goh, **Anqi Qiu*,** “Large Deformation Diffeomorphic Metric Mapping of Orientation Distribution Functions”, IPMI 2011, (Top conference in medical imaging analysis, acceptance rate is less than 25%) (oral presentation, 1 out of total 24 oral presentations).
8. Jidan Zhong, **Anqi Qiu***, “Diffeomorphic Cortical Surface Mapping and its Comparison with Spherical Cortical Mapping”, 2011 IEEE International Conference on Complex Medical Engineering, Harbin, China. (oral presentation).
9. Jia Du, **Anqi Qiu***, “Integrative Diffeomorphic Metric Mapping Based on Image and Unlabeled Points”, 2011 IEEE International Conference on Complex Medical Engineering, Harbin, China. (oral presentation).
10. Jidan Zhong, **Anqi Qiu*,** “Corpus Callosum Shape Analysis via Diffeomorphic Mapping with its application in Alzheimer’s disease”, The International Symposium on Early Detection and Rehabilitation Technology of Dementia, 2009, Japan. (oral presentation)
11. Moo K. Chung, **Anqi Qiu**, Brendon, M. Nacewicz, Seth Pollak, Richard J. Davidson, “Tiling Manifolds with Orthonormal Basis”, MICCAI2008, workshop on MFCA, Sep. 2008, New York (oral presentation).
12. **Anqi Qiu***, Michael I. Miller, “Cortical Hemisphere Registration via Diffeomorphic Curve Mapping”, MICCAI, 10:186-193, Oct 2007, Australia.
13. **Anqi Qiu***, Benjamin J. Rosenau, Adam S. Greenberg, Patrick Barta, Steven Yantis, Michael I. Miller, "Localizing Retinotopic fMRI Activation in Human Primary Visual Cortex via Dynamic Programming", Proceedings of the 27nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Sep 2005, Shanghai.
14. **Anqi Qiu**, Jing Bai, “Interaction of hemodynamics and gas exchange: a computer simulation**”,** Proceedings of the 22nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 3:1923 – 1926, Jul 2000, Chicago.

PATENTS

1. Susumu Mori, Michael I. Miller, **Anqi Qiu**, Can Ceritoglu, Jiangyang Zhang, “ADVANCED COST FUNCTIONS FOR IMAGE REGISTRATION FOR AUTOMATED IMAGE ANALYSIS: MULTI-CHANNEL, HYPERTEMPLATE AND ATLAS WITH BUILT-IN VARIABILITY”, US patent (PCT/US09/49812).

2. Susumu Mori, Michael I. Miller, **Anqi Qiu**, "AUTOMATED SURFACE-BASED ANATOMICAL ANALYSIS BASED ON ATLAS-BASED SEGMENTATION OF MEDICAL IMAGING", US patent (PCT/US2009/049819).

INTERNATIONAL COLLABORATIVE PROJECTS

1. Gemma Lewis, John Suckling, "Associations between maternal postnatal depression and infant brain functional connectivity: a pilot study of functional magnetic resonance imaging", University of Cambridge, 2015.

RESEARCH FUNDING

S/N	Period/ Duration	Source	Amount	Project Title	Role
1	Sep 2007-Aug 2010	MOE-FRC	179,183	A MRI Morphometric Analysis Pipeline for Studying Hippocampal Anatomy in Healthy Aging and the Dementia of the Alzheimer Type	PI
2	Aug 2008-Jan 2012	SERC	413,375	Multi-Manifold Diffeomorphic Metric Mapping and Brain Atlas Generation with Applications in Anatomical Shape Analysis	PI
3	Apr 2009-Sep 2012	BMRC	739,855	Influence of Fetal Growth on Cognition and Brain Development in Children	PI
4	Apr 2010 – Mar 2013	NMRC	6,000,000	Memory Aging and Cognition Centre	Theme-PI
5	Jan 2011-Dec 2014	NUS-YIA	452, 247	Map age-related changes of brain connectivity: a multi-modal magnetic resonance imaging study	PI
6	Mar 2011-Feb	MOE-FRC	174,933	Imaging Dopamine and Glutamate Related Genetic Effects on Brain Anatomy in Schizophrenia	PI
7	Apr 2009 – Mar 2014	NMRC-TCR	25,000,000	Developmental pathways to metabolic disease	Collaborator
8	Jun 2014 to May 2019	NMRC-TCR	23,180,000	Development pathways to health and disease: metabolic, neurodevelopmental and related outcomes	Theme PI
9	Apr 2010 – Mar 2013	BMRC	742,400	Investigating the isoform-specific effects of apolipoprotein E on N-methyl-D-aspartate receptor (NMDAR) signalling during age-related memory decline	Collaborator
10	Jul 2016	IMS	120,000	funding for workshop: "Mathematics of Shapes and Applications"	Co-PI
11	Nov 2017 to Oct 2020	NUS-SRP	300,000	Transgenerational Transmission of Mental Health from Mother to Child: Implication from Neonatal Brain	PI
12	April 2013 to March 2016	MOE	394,098	Mathematical Modeling of the Anatomy of the Brain White Matter	PI
13	Aug 2013 to Aug 2016	NMRC	898,488	Do Maternal Anxiety, Depression, and Associated Parenting Practices Impact Infant Prefrontal Structure & Function?	PI
14	Oct 2018 to Sep 2020	IAF	23,926,000	Investing in developmental cohorts and interventions to optimize health and human capacity	Co-PI
15	Jan 2016 to	Donati	CAD90,00		PI

	March 2019	on	0		
16	Oct 2018 to March 2022	NUS-PKU Joint Grant	902,251	Neural Network Based Learning for Prediction of Dementia Subtypes	PI
17	Jan 16, 2020 to Jan 15, 2023	MOE-Tier1	217,562.50	Spatio-Temporal Correlates of Gene Expression and Brain Morphology across Lifespan	PI
18	Jan 1, 2021 to Dec 31, 2023	NSF	US900,000 Direct cost: 579,394	Novel Continuous Structural and Functional Networks and Prediction of Individual Cognition	CO-PI