

Stanford

Max Wintermark

Professor of Radiology (Neuroimaging and Neurointervention) and, by courtesy, of Neurology, of Neurosurgery and of Psychiatry and Behavioral Sciences at the Stanford University Medical Center

CLINICAL OFFICES

- **Stanford Dept of Radiology**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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Bio

BIO

I am a neuroradiologist with a specific interest and expertise in stroke, traumatic brain injury, epilepsy, movement disorders and psychiatric disorders. I received my training in Diagnostic Radiology at the University of Lausanne in Switzerland followed by a fellowship in Diagnostic Neuroradiology at the University of California, San Francisco. I have a degree in biomedical engineering from the Swiss federal Institute of technology and a master in clinical research from the University of San Francisco. I worked as a faculty at the University of California, San Francisco, at the University of Virginia, and I am currently a Professor of Radiology and the Chief of Neuroradiology at the Stanford University.

I am the chair of the research committee of the American Society of Neuroradiology (ASNR). In this role, I developed the ASNR research study groups, including one focusing on cervical and intracranial wall imaging, one focusing on brain tumor imaging and genomics, and one addressing clinical translation of functional MRI (fMRI) and diffusion tensor imaging (DTI) to conditions such as traumatic brain injury and chronic stroke.

I am the chair of the imaging working group of the NINDS-funded stroke clinical trial network (StrokeNET). I was a member of the neuroimaging core lab in the DIAS 2 trial, and reviewed centrally the imaging data collected as part of this trial. I helped with the implementation of perfusion-CT as a penumbral imaging method for the MR-RESCUE trial. I am currently leading the imaging core lab for the NIH-funded Vasculopathy in Pediatric Stroke (VIPS) study, which aims at identifying the role and etiology of arteriopathy in pediatric stroke patients.

CLINICAL FOCUS

- Neuroradiology

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Radiology
- Professor - Med Center Line (By courtesy), Neurology & Neurological Sciences
- Professor - Med Center Line (By courtesy), Neurosurgery
- Professor - Med Center Line (By courtesy), Psychiatry and Behavioral Sciences
- Member, Bio-X

- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Meeting Program Committee, American Society of Neuroradiology, (2011- present)
- Fellowship Directors Committee, American Society of Neuroradiology, (2011- present)
- Evidence-Based Medicine Committee, American Society of Neuroradiology, (2012- present)
- Co-Chair, Website Committee, American Society of Neuroradiology, (2014- present)
- Co-Chair, Research Committee, American Society of Neuroradiology, (2013- present)
- Executive Committee, American Society of Neuroradiology, (2013- present)
- Vice-Chair, RSNA Public Information Committee, Radiological Society of North America, (2011- present)
- RSNA Public Information Advisors Network, Radiological Society of North America, (2011- present)
- Neuroradiology/Head&Neck Subcommittee of the Scientific Program Committee, Radiological Society of North America, (2013- present)
- Co-Chair, HI-RADS Committee of the ACR Head Injury Institute, American College of Neuroradiology, (2013- present)
- Chair, Clinical Research Impact Committee for ACR 2015 Meeting, American College of Radiology, (2013- present)
- Commission on Clinical Research and Information Technology, American College of Radiology, (2012- present)
- Commission on Neuroradiology, ACR Neuroradiology Commission Writing Group, American College of Radiology, (2012- present)
- Commission on Neuroradiology, Guidelines and Standards Committee, American College of Radiology, (2012- present)
- Committee of Practice Parameters - NeuroAppropriateness Criteria® (AC) Expert Panel on Neuroimaging, American College of Radiology, (2014- present)
- Steering Committee, Stroke Imaging Repository, (2007- present)

PROFESSIONAL EDUCATION

- Board Certification: Neuroradiology, American Board of Radiology (2011)
- Board Certification: Diagnostic Radiology, American Board of Radiology (2009)
- Fellowship: University of California, San Francisco (2005) CA
- Internship: GHOL - Hospital of Nyon (2000) Switzerland
- Medical Education: University of Lausanne School of Medicine (1998) Switzerland
- Residency: CHUV - University Hospital of Lausanne - Department of Radiology Switzerland
- MD, University of Lausanne (Switzerland), Medical School , Doctor of Medicine (1998)
- Bioengineering Degree, Swiss Federal Institute of Technology , Bioengineering and Biomedical Engineering (1999)
- Board of Radiology, Centre Hospitalier Universitaire Vaudois , Radiology Residency (2003)
- CAQ Neuroradiology, University of California, San Francisco , Neuroradiology Fellowship (2004)
- MAS, University of California, San Francisco , Clinical Research (2009)
- MBA, University of Massachusetts, Isenberg School of Management , Business Administration (2014)

LINKS

- My Website: <https://sites.google.com/site/maxwintermark/>
- My Publications: <http://www.ncbi.nlm.nih.gov/pubmed/?term=wintermark+m>
- Stanford Neuroradiology: <http://med.stanford.edu/neuroimaging.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Stroke, cerebrovascular diseases, cardiovascular diseases, carotid arteries, coronary arteries
Stroke diagnosis, stroke triage, stroke treatment
Traumatic brain injury
Traumatic brain injury diagnosis and prognosis
Psychiatric disorders, including depression and post-traumatic stress disorders
Epilepsy
Movement disorders, including essential tremor and Parkinson's tremor
Brain tumors
Image-guided clinical trials
CT, multidetector-row CT, perfusion-CT, CT angiography
MRI, diffusion-weighted MRI, perfusion-weighted MRI, diffusion tensor imaging, functional MRI
Brain perfusion imaging techniques
Functional imaging
Post-processing techniques of medical images, signal and image processing
3D visualization
MR-guided focused ultrasound

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Neuroradiology (Fellowship Program)

Publications

PUBLICATIONS

- **Semiautomated Characterization of Carotid Artery Plaque Features From Computed Tomography Angiography to Predict Atherosclerotic Cardiovascular Disease Risk Score.** *Journal of computer assisted tomography*
Zhu, G., Li, Y., Ding, V., Jiang, B., Ball, R. L., Rodriguez, F., Fleischmann, D., Desai, M., Saloner, D., Gupta, A., Saba, L., Hom, J., Wintermark, et al
; 43 (3): 452–59
- **Eligibility for late endovascular treatment using DAWN, DEFUSE-3, and more liberal selection criteria in a stroke center.** *Journal of neurointerventional surgery*
Nannoni, S., Strambo, D., Sirimarco, G., Amiguet, M., Vanacker, P., Eskandari, A., Saliou, G., Wintermark, M., Dunet, V., Michel, P.
2019
- **Imaging cancer immunology: Systemic tracking of immune cells in vivo with magnetic particle imaging**
Mansfield, J., Ren, G., Gaudet, J., Zhang, Y., Ghobadi, S., Wintermark, M., Goodwill, P.
BMC.2019
- **Perfusion Computed Tomography in Acute Ischemic Stroke.** *Radiologic clinics of North America*
Heit, J. J., Sussman, E. S., Wintermark, M.
2019; 57 (6): 1109–16
- **Automated CT perfusion imaging for acute ischemic stroke: Pearls and pitfalls for real-world use.** *Neurology*
Vagal, A., Wintermark, M., Nael, K., Bivard, A., Parsons, M., Grossman, A. W., Khatri, P.
2019

- **White matter asymmetry: a reflection of pathology in traumatic brain injury.** *Journal of neurotrauma*
Vakhtin, A. A., Zhang, Y., Wintermark, M., Massaband, P., Robinson, M., Ashford, J. W., Furst, A. J.
2019
- **Application of FLAIR Vascular Hyperintensity-DWI Mismatch in Ischemic Stroke Depending on Semi-Quantitative DWI-Alberta Stroke Program Early CT Score** *FRONTIERS IN NEUROLOGY*
Song, L., Lyu, C., Shen, G., Guo, T., Wang, J., Wang, W., Qiu, X., Lerner, A., Wintermark, M., Gao, B.
2019; 10
- **Anatomic and Thermometric Analysis of Cranial Nerve Palsy after Laser Amygdalohippocampotomy for Mesial Temporal Lobe Epilepsy.** *Operative neurosurgery (Hagerstown, Md.)*
Huang, Y., Leung, S. A., Parker, J. J., Ho, A. L., Wintermark, M., Patel, S. H., Pauly, K. B., Kakusa, B. W., Beres, S. J., Henderson, J. M., Grant, G. A., Halpern, C. H.
2019
- **Imaging of Atypical and Complicated Posterior Reversible Encephalopathy Syndrome** *FRONTIERS IN NEUROLOGY*
Saad, A. F., Chaudhari, R., Wintermark, M.
2019; 10
- **Comparison of MRI IVIM and MR perfusion imaging in acute ischemic stroke due to large vessel occlusion.** *International journal of stroke : official journal of the International Stroke Society*
Zhu, G., Federau, C., Wintermark, M., Chen, H., Marcellus, D. G., Martin, B. W., Heit, J. J.
2019: 1747493019873515
- **Carotid Artery Imaging Is More Strongly Associated With the 10-Year Atherosclerotic Cardiovascular Disease Score Than Coronary Artery Imaging.** *Journal of computer assisted tomography*
Li, Y., Zhu, G., Ding, V., Jiang, B., Boothroyd, D., Rodriguez, F., Fleischmann, D., Desai, M., Saloner, D., Saba, L., Hom, J., Wintermark, M.
2019; 43 (5): 679–85
- **Neuroimaging selection for thrombectomy in pediatric stroke: a single-center experience** *JOURNAL OF NEUROINTERVENTIONAL SURGERY*
Lee, S., Heit, J., Albers, G. W., Wintermark, M., Jiang, B., Bernier, E., Fischbein, N. J., Mlynash, M., Marks, M. P., Do, H. M., Dodd, R. L.
2019; 11 (9): 940–46
- **Endovascular versus medical therapy for large-vessel anterior occlusive stroke presenting with mild symptoms.** *International journal of stroke : official journal of the International Stroke Society*
Wolman, D. N., Marcellus, D. G., Lansberg, M. G., Albers, G., Guenego, A., Marks, M. P., Dodd, R. L., Do, H. M., Wintermark, M., Martin, B. W., Heit, J. J.
2019: 1747493019873510
- **Applications of Deep Learning to Neuro-Imaging Techniques** *FRONTIERS IN NEUROLOGY*
Zhu, G., Jiang, B., Tong, L., Xie, Y., Zaharchuk, G., Wintermark, M.
2019; 10
- **Optimized Combination of b#values for IVIM Perfusion Imaging in Acute Ischemic Stroke Patients.** *Clinical neuroradiology*
Zhu, G., Heit, J. J., Martin, B. W., Marcellus, D. G., Federau, C., Wintermark, M.
2019
- **Optimization of a Multifrequency Magnetic Resonance Elastography Protocol for the Human Brain** *JOURNAL OF NEUROIMAGING*
Kurt, M., Wu, L., Laksari, K., Ozkaya, E., Suar, Z. M., Lv, H., Epperson, K., Epperson, K., Sawyer, A. M., Camarillo, D., Pauly, K., Wintermark, M.
2019; 29 (4): 440–46
- **Longitudinal Changes in Hippocampal Subfield Volume Associated with Collegiate Football** *JOURNAL OF NEUROTRAUMA*
Pariyash, S. N., Goubran, M., Mills, B. D., Rezaei, P., Thaler, C., Wolman, D., Bian, W., Mitchell, L. A., Boldt, B., Douglas, D., Wilson, E. W., Choi, J., Xie, et al
2019
- **Decreasing Stroke Code to CT Time in Patients Presenting with Stroke Symptoms.** *Radiographics : a review publication of the Radiological Society of North America, Inc*
Kalnins, A., Mickelsen, L. J., Marsh, D., Zorich, C., Casal, S., Tai, W. A., Vora, N., Olalia, G., Wintermark, M., Larson, D. B.
; 37 (5): 1559–68
- **Imaging biomarkers of vulnerable carotid plaques for stroke risk prediction and their potential clinical implications** *LANCET NEUROLOGY*
Saba, L., Saam, T., Jager, H., Yuan, C., Hatsukami, T. S., Saloner, D., Wasserman, B. A., Bonati, L. H., Wintermark, M.

2019; 18 (6): 559–72

- **A statistical approach to identify optimal inclusion criteria: An application to acute stroke clinical trials** *CONTEMPORARY CLINICAL TRIALS COMMUNICATIONS*
Ball, R. L., Jiang, B., Desai, M., Michel, P., Eskandari, A., Jovin, T., Wintermark, M.
2019; 14
- **A statistical approach to identify optimal inclusion criteria: An application to acute stroke clinical trials.** *Contemporary clinical trials communications*
Ball, R. L., Jiang, B., Desai, M., Michel, P., Eskandari, A., Jovin, T., Wintermark, M.
2019; 14: 100355
- **Collaterals are a major determinant of the core but not the penumbra volume in acute ischemic stroke.** *Neuroradiology*
Nannoni, S., Cereda, C. W., Sirimarco, G., Lambrou, D., Strambo, D., Eskandari, A., Dunet, V., Wintermark, M., Michel, P.
2019
- **Common Data Elements for Radiological Imaging of Patients with Subarachnoid Hemorrhage: Proposal of a Multidisciplinary Research Group.** *Neurocritical care*
Hackenberg, K. A., Etminan, N., Wintermark, M., Meyers, P. M., Lanzino, G., Rufenacht, D., Krings, T., Huston, J. 3., Rinkel, G., Derdeyn, C., Unruptured Intracranial Aneurysms and SAH CDE Project Investigators, Suarez, J. I., Macdonald, R. L., et al
2019
- **Collateral blood flow measurement with intravoxel incoherent motion perfusion imaging in hyperacute brain stroke** *NEUROLOGY*
Federau, C., Wintermark, M., Christensen, S., Mlynash, M., Marcellus, D. G., Zhu, G., Martin, B. W., Lansberg, M. G., Albers, G. W., Heit, J. J.
2019; 92 (21): E2462–E2471
- **Stability of Blood Biomarkers of Traumatic Brain Injury** *JOURNAL OF NEUROTRAUMA*
Rezaii, P., Grant, G., Zeineh, M., Richardson, K., Coburn, M., Bet, A., Weber, A., Jiang, B., Li, Y., Ubungen, K., Routh, G., Wheatcroft, A., Paulino, et al
2019: 1–10
- **Optimization of a Multifrequency Magnetic Resonance Elastography Protocol for the Human Brain.** *Journal of neuroimaging : official journal of the American Society of Neuroimaging*
Kurt, M., Wu, L., Laksari, K., Ozkaya, E., Suar, Z. M., Lv, H., Epperson, K., Epperson, K., Sawyer, A. M., Camarillo, D., Pauly, K. B., Wintermark, M.
2019
- **Collateral blood flow measurement with intravoxel incoherent motion perfusion imaging in hyperacute brain stroke.** *Neurology*
Federau, C., Wintermark, M., Christensen, S., Mlynash, M., Marcellus, D. G., Zhu, G., Martin, B. W., Lansberg, M. G., Albers, G. W., Heit, J. J.
2019
- **Stability of Blood Biomarkers of Traumatic Brain Injury.** *Journal of neurotrauma*
Rezaii, P., Grant, G., Zeineh, M., Richardson, K. J., Coburn, M. L., Bet, A. M., Weber, A., Jiang, B., Li, Y., Ubungen, K., Routh, G., Wheatcroft, A. M., Paulino, et al
2019
- **Design of a Phase III Study of Intravenous Glibenclamide (BIIB093) for Large Hemispheric Infarction: the CHARM Study**
Sheth, K. N., Kimberley, W., Albers, G. W., Hinson, H. E., Molyneaux, B. J., Nogueira, R., Saver, J., Steiner, T., Toyoda, K., Wintermark, M., Elkins, J., Deykin, A., Wald, et al
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Imaging biomarkers of vulnerable carotid plaques for stroke risk prediction and their potential clinical implications.** *The Lancet. Neurology*
Saba, L., Saam, T., Jager, H. R., Yuan, C., Hatsukami, T. S., Saloner, D., Wasserman, B. A., Bonati, L. H., Wintermark, M.
2019
- **Hypoperfusion Intensity Ratio Is Correlated With Patient Eligibility for Thrombectomy** *STROKE*
Guenego, A., Marcellus, D. G., Martin, B. W., Christensen, S., Albers, G. W., Lansberg, M. G., Marks, M. P., Wintermark, M., Heit, J. J.
2019; 50 (4): 917–22
- **Proposed achievable levels of dose and impact of dose-reduction systems for thrombectomy in acute ischemic stroke: an international, multicentric, retrospective study in 1096 patients.** *European radiology*
Guenego, A., Mosimann, P. J., Pereira, V. M., Nicholson, P., Zuber, K., Lotterie, J. A., Dobrocky, T., Marcellus, D. G., Olivot, J. M., Piotin, M., Gralla, J., Fahed, R., Wintermark, et al
2019

- **Hypoperfusion Intensity Ratio Is Correlated With Patient Eligibility for Thrombectomy.** *Stroke*
Guenego, A., Marcellus, D. G., Martin, B. W., Christensen, S., Albers, G. W., Lansberg, M. G., Marks, M. P., Wintermark, M., Heit, J. J.
2019; STROKEAHA118024134
- **Accuracy of detecting enlargement of aneurysms using different MRI modalities and measurement protocols** *JOURNAL OF NEUROSURGERY*
Nakagawa, D., Nagahama, Y., Policeni, B. A., Raghavan, M. L., Dillard, S. I., Schumacher, A. L., Sarathy, S., Dlouhy, B. J., Wilson, S., Allan, L., Woo, H. H., Huston, J., Cloft, et al
2019; 130 (2): 559–65
- **Predictors and Outcome of Eligible Patients for Late Endovascular Treatment: Real Life Analysis From a Comprehensive Stroke Center.**
Nannoni, S., Strambo, D., Sirimarco, G., Amiguet, M., Vanacker, P., Eskandari, A., Dunet, V., Saliou, G., Wintermark, M., Michel, P.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Inflammatory Biomarkers Correlate With Etiology in Childhood Arterial Ischemic Stroke**
Fullerton, H. J., Hills, N. K., Wintermark, M., Norris, P., Heitman, J., Keating, S., Owen, R., VIPS Investigators
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Selection Criteria for Thrombectomy in Pediatric Stroke: A Single-Center Series**
Lee, S., Heit, J. J., Albers, G. W., Wintermark, M., Elbers, J., Bernier, E., Jiang, B., Marks, M. P., Do Huy, M., Dodd, R.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Macrovascular Networks on Contrast-Enhanced Magnetic Resonance Imaging Improves Survival Prediction in Newly Diagnosed Glioblastoma.** *Cancers*
Puig, J., Biarnes, C., Daunis-I-Estadella, P., Blasco, G., Gimeno, A., Essig, M., Balana, C., Alberich-Bayarri, A., Jimenez-Pastor, A., Camacho, E., Thio-Henestrosa, S., Capellades, J., Sanchez-Gonzalez, et al
2019; 11 (1)
- **Determining factors of better leptomeningeal collaterals: a study of 857 consecutive acute ischemic stroke patients.** *Journal of neurology*
Nannoni, S., Sirimarco, G., Cereda, C. W., Lambrou, D., Strambo, D., Eskandari, A., Mosimann, P. J., Wintermark, M., Michel, P.
2019
- **Longitudinal changes in hippocampal subfield volume associated with collegiate football.** *Journal of neurotrauma*
Pariyash, S. N., Goubran, M., Mills, B. D., Rezaei, P., Thaler, C., Wolman, D., Bian, W., Mitchell, L. A., Boldt, B., Douglas, D., Wilson, E., Choi, J., Xie, et al
2019
- **Imaging of Atypical and Complicated Posterior Reversible Encephalopathy Syndrome.** *Frontiers in neurology*
Saad, A. F., Chaudhari, R., Wintermark, M.
2019; 10: 964
- **Effect of Electronic Clinical Decision Support on Imaging for the Evaluation of Acute Low Back Pain in the Ambulatory Care Setting.** *World neurosurgery*
Chen, D., Bhambhani, H. P., Hom, J., Mahoney, M., Wintermark, M., Sharp, C., Ratliff, J., Chen, Y. R.
2019
- **Reorganization of brain networks following carotid endarterectomy: an exploratory study using resting state functional connectivity with a focus on the changes in Default Mode Network connectivity.** *European journal of radiology*
Porcu, M., Craboledda, D., Garofalo, P., Barberini, L., Sanfilippo, R., Zaccagna, F., Wintermark, M., Montisci, R., Saba, L.
2019; 110: 233–41
- **Arterial-Spin Labeling MRI Identifies Residual Cerebral Arteriovenous Malformation Following Stereotactic Radiosurgery Treatment.** *Journal of neuroradiology. Journal de neuroradiologie*
Heit, J. J., Thakur, N. H., Iv, M., Fischbein, N. J., Wintermark, M., Dodd, R. L., Steinberg, G. K., Chang, S. D., Kapadia, K. B., Zaharchuk, G.
2019
- **Neuroimaging selection for thrombectomy in pediatric stroke: a single-center experience.** *Journal of neurointerventional surgery*
Lee, S., Heit, J. J., Albers, G. W., Wintermark, M., Jiang, B., Bernier, E., Fischbein, N. J., Mlynash, M., Marks, M. P., Do, H. M., Dodd, R. L.
2019
- **Factors influencing infarct growth including collateral status assessed using computed tomography in acute stroke patients with large artery occlusion.** *International journal of stroke : official journal of the International Stroke Society*
Jiang, B., Ball, R. L., Michel, P., Li, Y., Zhu, G., Ding, V., Su, B., Naqvi, Z., Eskandari, A., Desai, M., Wintermark, M.
2019: 1747493019851278

- **Deep Learning Convolutional Neural Networks for the Automatic Quantification of Muscle Fat Infiltration Following Whiplash Injury.** *Scientific reports*
Weber, K. A., Smith, A. C., Wasielewski, M., Eghesad, K., Upadhyayula, P. A., Wintermark, M., Hastie, T. J., Parrish, T. B., Mackey, S., Elliott, J. M.
2019; 9 (1): 7973
- **Semiautomated Characterization of Carotid Artery Plaque Features From Computed Tomography Angiography to Predict Atherosclerotic Cardiovascular Disease Risk Score.** *Journal of computer assisted tomography*
Zhu, G., Li, Y., Ding, V., Jiang, B., Ball, R. L., Rodriguez, F., Fleischmann, D., Desai, M., Saloner, D., Gupta, A., Saba, L., Hom, J., Wintermark, et al
2019
- **The influence of the volumetric composition of the intracranial space on neural activity in healthy subjects: a resting-state functional magnetic resonance study.** *The European journal of neuroscience*
Porcu, M., Wintermark, M., Suri, J. S., Saba, L.
2019
- **Application of FLAIR Vascular Hyperintensity-DWI Mismatch in Ischemic Stroke Depending on Semi-Quantitative DWI-Alberta Stroke Program Early CT Score.** *Frontiers in neurology*
Song, L., Lyu, C., Shen, G., Guo, T., Wang, J., Wang, W., Qiu, X., Lerner, A., Wintermark, M., Gao, B.
2019; 10: 994
- **Demographics and Clinical Characteristics of Acute Traumatic Brain Injury Patients in the Different Neuroimaging Radiological Interpretation System (NIRIS) Categories.** *Journal of neuroradiology. Journal de neuroradiologie*
Chen, H., Li, Y., Jiang, B., Zhu, G., Rezaei, P. G., Gang, L., Wintermark, M.
2019
- **Stereotactic laser ablation for completion corpus callosotomy.** *Journal of neurosurgery. Pediatrics*
Huang, Y., Yecies, D., Bruckert, L., Parker, J. J., Ho, A. L., Kim, L. H., Fornoff, L., Wintermark, M., Porter, B., Yeom, K. W., Halpern, C. H., Grant, G. A.
2019: 1-9
- **Validation of the NeuroImaging Radiological Interpretation System for Acute Traumatic Brain Injury.** *Journal of computer assisted tomography*
Zhou, B., Ding, V. Y., Li, Y., Ball, R. L., Jiang, B., Zhu, G., Boothroyd, D., Zeineh, M., Gean, A., Wintermark, M.
2019
- **Large-scale ensemble simulations of biomathematical brain arteriovenous malformation models using graphics processing unit computation.** *Computers in biology and medicine*
Jain, M. S., Do, H. M., Wintermark, M., Massoud, T. F.
2019; 113: 103416
- **Neuroimaging of Traumatic Brain Injury.** *Medical sciences (Basel, Switzerland)*
Douglas, D. B., Ro, T., Toffoli, T., Krawchuk, B., Muldermans, J., Gullo, J., Dulberger, A., Anderson, A. E., Douglas, P. K., Wintermark, M.
2018; 7 (1)
- **Variation of degree of stenosis quantification using different energy level with dual energy CT scanner.** *Neuroradiology*
Saba, L., Argioas, G. M., Lucatelli, P., Lavra, F., Suri, J. S., Wintermark, M.
2018
- **Connectometry evaluation in patients undergoing carotid endarterectomy: an exploratory study.** *Brain imaging and behavior*
Porcu, M., Craboledda, D., Garofalo, P., Columbano, G., Barberini, L., Sanfilippo, R., Zaccagna, F., Wintermark, M., Montisci, R., Saba, L.
2018
- **Response by Vagal et al to Letter Regarding Article, "Collateral Clock Is More Important Than Time Clock for Tissue Fate: A Natural History Study of Acute Ischemic Strokes".** *Stroke*
Vagal, A., Aviv, R., Wintermark, M.
2018; 49 (12): e340
- **FDG PET/MRI Coregistration Helps Predict Response to Gamma Knife Radiosurgery in Patients With Brain Metastases.** *AJR. American journal of roentgenology*
Leiva-Salinas, C., Muttikkal, T. J., Flors, L., Puig, J., Wintermark, M., Patrie, J. T., Rehm, P. K., Sheehan, J. P., Schiff, D.
2018: 1-6
- **Focal Cerebral Arteriopathy of Childhood.** *Stroke*

- Fullerton, H. J., Stence, N., Hills, N. K., Jiang, B., Amlie-Lefond, C., Bernard, T. J., Friedman, N. R., Ichord, R., Mackay, M. T., Rafay, M. F., Chabrier, S., Steinlin, M., Elkind, et al
2018; 49 (11): 2590–96
- **Advanced Neuroimaging of Acute Ischemic Stroke: Penumbra and Collateral Assessment.** *Neuroimaging clinics of North America*
Heit, J. J., Zaharchuk, G., Wintermark, M.
2018; 28 (4): 585–97
 - **Computed Tomography, Computed Tomography Angiography, and Perfusion Computed Tomography Evaluation of Acute Ischemic Stroke** *NEUROIMAGING CLINICS OF NORTH AMERICA*
Leiva-Salinas, C., Jiang, B., Wintermark, M.
2018; 28 (4): 565–72
 - **Use of Gradient Boosting Machine Learning to Predict Patient Outcome in Acute Ischemic Stroke on the Basis of Imaging, Demographic, and Clinical Information.** *AJR. American journal of roentgenology*
Xie, Y., Jiang, B., Gong, E., Li, Y., Zhu, G., Michel, P., Wintermark, M., Zaharchuk, G.
2018: 1–7
 - **Imaging Evaluation of the Adult Presenting With New-Onset Seizure.** *AJR. American journal of roentgenology*
Tranvinh, E., Lanzman, B., Provenzale, J., Wintermark, M.
2018: 1–11
 - **Testing Different Combinations of Acoustic Pressure and Doses of Quinolinic Acid for Induction of Focal Neuron Loss in Mice Using Transcranial Low-Intensity Focused Ultrasound.** *Ultrasound in medicine & biology*
Zhang, Y., Liao, C., Qu, H., Huang, S., Jiang, H., Zhou, H., Abrams, E., Habte, F. G., Yuan, L., Bertram, E. H., Lee, K. S., Pauly, K. B., Buckmaster, et al
2018
 - **Resting-State Functional Connectivity Magnetic Resonance Imaging and Outcome After Acute Stroke.** *Stroke*
Puig, J., Blasco, G., Alberich-Bayarri, A., Schlaug, G., Deco, G., Biarnes, C., Navas-Marti, M., Rivero, M., Gich, J., Figueras, J., Torres, C., Daunis-I-Estadella, P., Oramas-Requejo, et al
2018; 49 (10): 2353–60
 - **Investigating the effects of subconcussion on functional connectivity using mass-univariate and multivariate approaches** *BRAIN IMAGING AND BEHAVIOR*
Reynolds, B. B., Stanton, A. N., Soldozy, S., Goodkin, H. P., Wintermark, M., Druzgal, T.
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