Daniel Yasumasa Takahashi Curriculum Vitae

Daniel Yasumasa Takahashi

Curriculum Vitae

Personal Information

Full name Daniel Yasumasa Takahashi

Birth information 08/11/1979 - São Paulo/SP - Brazil

Formal Education

2009 Postdoc Research Associate.

Universidade de São Paulo, USP, Sao Paulo, Brazil

Scholarship from : Fundação de Amparo à Pesquisa do Estado de São Paulo

2010 Postdoc Research Fellow.

Princeton University, PRINCETON, Princeton, United States

Scholarship from: Pew Latin American Fellowship

2004 - 2009 Doctorate in Bioinformatics.

Universidade de São Paulo, USP, Sao Paulo, Brazil

Title: Medidas de Fluxo de Informação com Apicação em Neurociência, Year of degree:

2009

Advisor: Koichi Sameshima

Scholarship from : Coordenação de Aperfeiçoamento de Pessoal de Nível Superior

2004 - 2008 Bachelor's in Applied Mathematics.

Universidade de São Paulo, USP, Sao Paulo, Brazil

Title: Teorema do Núcleo de Schwartz Advisor: Paulo Domingos Cordaro

1998 - 2003 Medical degree.

Universidade de São Paulo, USP, Sao Paulo, Brazil

Title: Redes neurais artificiais no auxílio ao diagnóstico da doença de Alzheimer

Advisor: Koichi Sameshima

Scholarship from : Conselho Nacional de Desenvolvimento Científico e Tecnológico

S, T & A Production

Bibliographic Production

Articles Published in Scientific Journals

1. Gallo, S., Takahashi, Daniel Y.. 2013.

Attractive regular stochastic chains: perfect simulation and phase transition. In Ergodic Theory and Dynamical Systems. , v.FirstView, 1-20

2. Gallo, S., Lerasle, Matthieu, Takahashi, Daniel Y.. 2013.

Markov approximation of chains of infinite order in d-metric In Markov Processes and Related Fields., v.19, 51

- 3. SATO, João Ricardo, **Takahashi, Daniel Y.**, HOEXTER, MARCELO QUEIROZ, MASSIRER, KATLIN BRAUER, FUJITA, ANDRÉ. 2013.
- Measuring network's entropy in ADHD: A new approach to investigate neuropsychiatric disorders In Neuroimage (Orlando, Fla. Print). , v.77, 44-51
- 4. **Takahashi, Daniel Y.**, SATO, João Ricardo, FERREIRA, CARLOS EDUARDO, FUJITA, ANDRÉ. 2012. Discriminating Different Classes of Biological Networks by Analyzing the Graphs Spectra Distribution In Plos One., v.7, e49949
- 5. Ghazanfar, Asif A., **Takahashi, Daniel Y.**, Mathur, Neil, Fitch, W. Tecumseh. 2012. Cineradiography of Monkey Lip-Smacking Reveals Putative Precursors of Speech Dynamics In Current Biology., v.22, 1176-1182
- 6. Lerasle, Matthieu, **Takahashi, Daniel Y.**. 2011. An oracle approach for interaction neighborhood estimation in random fields In ELECTRON J STAT. , v.5, 534-571
- 7. Brito, SC, BACCALÁ, Luiz Antonio, **Takahashi, Daniel Y.**, SAMESHIMA, Koichi. 2010. Asymptotic behavior of generalized partial directed coherence In Conference Proceedings (IEEE Engineering in Medicine and Biology Society. Conf.)., v.1, 1718-1721
- 8. **Takahashi, Daniel Y.**, BACCALÁ, Luiz Antonio, SAMESHIMA, Koichi. 2010. Frequency domain connectivity: an information theoretic perspective In Conference Proceedings (IEEE Engineering in Medicine and Biology Society. Conf.)., v.1, 1726-1729
- 9. **Takahashi, Daniel Y.**, Baccalá, Luiz A., SAMESHIMA, Koichi. 2010. Information theoretic interpretation of frequency domain connectivity measures In Biological Cybernetics. , v.103, 463-469
- 10. SATO, João Ricardo, **Takahashi, Daniel Y.**, ARCURI, S. M., SAMESHIMA, Koichi, MORETTIN, Pedro Alberto, BACCALÁ, Luiz Antonio. 2009. Frequency domain connectivity identification: An application of partial directed coherence in fMRI. In Human Brain Mapping., v.30, 452-461
- 11. Dzirasa, K., Ramsey, A. J., **Takahashi, Daniel Y.**, Stapleton, J., Potes, J. M., Williams, J. K., Gainetdinov, R. R., Sameshima, K., Caron, M. G., Nicolelis, M. A. L.. 2009. Hyperdopaminergia and NMDA Receptor Hypofunction Disrupt Neural Phase Signaling In The Journal of Neuroscience., v.29, 8215-8224
- 12. RAICHER, I., SHIMIZU, M., **Takahashi, Daniel Y.**, NITRINI, Ricardo, CARAMELLI, Paulo. 2008. Alzheimer's disease diagnosis disclosure in Brazil: a survey of specialized physicians' current practice and attitudes. In International Psychogeriatrics., v.20, 471-481
- 13. LOPES, R. I., Nogueira, L., ALBERTOTTI, C. J., **Takahashi, Daniel Y.**, LOPES, R. N. 2008. Comparison of of virtual cystoscopy and transabdominal ultrasonography with conventional cystoscopy for bladder tumor detection In Journal of Endourology. , v.22, 1725-1729
- 14. SHIMIZU, M., RAICHER, I., **Takahashi, Daniel Y.**, CARAMELLI, Paulo, NITRINI, Ricardo. 2008. Disclosure of the diagnosis of Alzheimer's disease: caregivers' opinions in a Brazilian sample In Arquivos de Neuro-Psiquiatria., v.66, 625-630
- 15. **Takahashi, Daniel Y.**, BACCALÁ, Luiz Antonio, SAMESHIMA, Koichi. 2008. Partial directed coherence asymptotics for VAR processes of infinite order. International Journal of Bioelectromagnetism., v.10, 31-36
- 16. RAICHER, I., **Takahashi, Daniel Y.**,Kanda, P.A.M., NITRINI, Ricardo, ANGHINAH, Renato. 2008. qEEG spectral peak in Alzheimer's disease: a possible tool for treatment follow-up In Dementia & neuropsychologia., v.2, 9-12
- 17. Vittielo, A. P., CIRIACO, J.G., Takahashi, Daniel Y., NITRINI, Ricardo, CARAMELLI, Paulo. 2007.

Brief cognitive evaluation of patients attended in a general neurological outpatient clinic In Arquivos de Neuro-Psiquiatria., v.65, 299-303

- 18. **Takahashi, Daniel Y.**, BACCALÁ, Luiz Antonio, SAMESHIMA, Koichi. 2007. Connectivity Inference via Partial Directed Coherence In Journal of Applied Statistics. , v.34, 1259-1273
- 19. SATO, João Ricardo, FELIX, Marcelo de Maria, **Takahashi, Daniel Y.**, AMARO JUNIOR, Edson, BRAMMER, Michael John, MORETTIN, Pedro Alberto. 2006.

A METHOD TO PRODUCE EVOLVING FUNCTIONAL CONNECTIVITY MAPS DURING THE COURSE OF AN FMRI EXPERIMENT USING WAVELET BASED TIME-VARYING GRANGER CAUSALITY In Neurolmage (Orlando)., v.31, 187-196

20. SATO, João Ricardo, **Takahashi, Daniel Y.**, Cardoso, E.F., Martin, M.G.M., AMARO JUNIOR, Edson, MORETTIN. Pedro Alberto. 2006.

Intervention Models in Functional Connectivity Identification Applied to fMRI In International Journal of Biomedical Imaging., v.2006, 1-7

- 21. SAMESHIMA, Koichi, Takahashi, Daniel Y., BACCALÁ, Luiz Antonio. 2005.
- Avaliando a complexidade da dinâmica cardiovascular por entropia amostral In Revista Brasileira de Hipertenção., v.12, 27-32
- 22. COSTA, Gulherme Guerra Orcesi da, CTENAS, Bruno Brito, **Takahashi, Daniel Y.**, MION, Olavo, MELLO JUNIOR, Joao F, BUTUGAN, Ossamu. 2005.

Comparação entre a Rinometria Acústica, 'Peak Flow'Nasal Inspiratório e sua Correlação com Sintomas e Sinais Clínicos de Rinite In Arquivos de Otorrinolaringorologia. , v.9, 203-211

23. ANGHINAH, Renato, CARAMELLI, Paulo, **Takahashi, Daniel Y.**, NITRINI, Ricardo, SAMESHIMA, Koichi. 2005.

EEG alpha band coherence analysis in healthy adults: preliminary results In Arquivos de Neuro-Psiquiatria. , v.63, 83-86

- 24. NITRINI, Ricardo, CARAMELLI, Paulo, HERRERA, Emílio, BAHIA, Valéria Santoro, CAIXETA, Leonardo, RADANOVIC, Márcia, ANGHINAH, Renato, CHARCHATFICHMAN, Helenice, PORTO, Claudia Sellito, CARTHERY, Maria Teresa, HARTMANN, Ana Paula Barbosa Jeronimo, HUANG, Nancy, SMID, Jerusa, LIMA, e P, TAKADA, Leonardo Tadao, **Takahashi, Daniel Y.**, 2005.
- Incidence of dementia in a community-dwelling Brazilian population In Alzheimer Disease and Associated Disorders. , v.18, 241-246
- 25. NITRINI, Ricardo, CARAMELLI, Paulo, HERRERA, Emílio, CASTRO, I de, BAHIA, Valéria Santoro, ANGHINAH, Renato, CAIXETA, Leonardo, RADANOVIC, Márcia, CHARCHATFICHMAN, Helenice, PORTO, Claudia Sellito, CARTHERY, Maria Teresa, HARTMANN, Ana Paula Barbosa Jeronimo, HUANG, Nancy, SMID, Jerusa, LIMA, e P, **Takahashi, Daniel Y.**, TAKADA, Leonel Tadao. 2005.

Mortality from dementia in a community-dwelling Brazilian population In International Journal of Geriatric Psychiatry. , v.20, 247-253

26. HARTMANN, Ana Paula Barbosa Jeronimo, ALMEIDA, Sergio Monteiro de, LIVRAMENTO, José Antonio, NITRINI, Ricardo, **Takahashi, Daniel Y.**, CARAMELLI, Paulo. 2004.

Hyperphosphorylated tau protein in the cerebrospinal fluid of patients with Alzheimer's disease and other dementias: preliminary findings. In Arquivos de Neuro-Psiquiatria., v.62, 751-755

Chapters published

- 1. BACCALÁ, Luiz Antonio, **Takahashi, Daniel Y.**, SAMESHIMA, Koichi. 2006. In Handbook of Time Series Analysis, edited by Wilterhalter; Schelter; Timmer, 411-435: Springer
- 2. SAMESHIMA, Koichi, Takahashi, Daniel Y. 2004.

In Métodos Quantitativos em Medicina, edited by Eduardo Massad; Renee Xavierd Menezes; Paulo Silveira. Vol. 1, 493-526. São Paulo: Manole

3. Takahashi, Daniel Y., CHARCHAT, H., NITRINI, Ricardo, CARAMELLI, Paulo, SAMESHIMA, Koichi. 2000.

In ANAIS DO I CONGRESSO DE LÓGICA APLICADA À TECNOLOGIA - LAPTEC, edited by Jair Amiro Abe. e ed 1. Vol. 1, 359-371. São Paulo: Plêiade

Articles published in annals of events (Complete)

- 1. BACCALÁ, Luiz Antonio, **Takahashi, Daniel Y.**, SAMESHIMA, Koichi. 2007. In DSP2007 CARDIFF 1 162-166InternationalConference on Digital Signal Processing
- 2. **Takahashi, Daniel Y.**, CHARCHAT, H., CARAMELLI, Paulo, NITRINI, Ricardo, SAMESHIMA, Koichi. 2000.

IN ANAIS DO VII CONGRESSO BRASILEIRO DE INFORMÁTICA EM SAÚDE CIBIS 2000 - VII CONGRESSO BRASILEIRO DE INFORMÁTICA EM SAÚDE São Paulo 2000

Articles published in annals of events (expanded summary)

1. **Takahashi, D. Y.**, NARAYANAN, D., GHAZANFAR, A. A.. 2012. In ICDL-EPIROB 2012 proceedings ICDL-EPIROB 2012 San Diego 2012

Articles published in annals of events (summary)

1. TAKAHASHI, D. Y., BACCALÁ, Luiz Antonio, Lebedev, M.A., SAMESHIMA, Koichi, NICOLELIS, Miguel. 2006.

In Neuroscience 2006 Neuroscience 2006 Atlanta 2006

- 2. SAMESHIMA, Koichi, TAKAHASHI, D. Y., BACCALÁ, Luiz Antonio. 2006. In Neurosience 2006 Neuroscience 2006 Atlanta 2006
- 3. TAKAHASHI, D. Y., SATO, João Ricardo, SAMESHIMA, Koichi, BACCALÁ, Luiz Antonio, MORETTIN, Pedro Alberto, GALVES, Antonio. 2005.

In 9 Escola Brasileira de Probabilidade São Sebastião 2005

- 4. SATO, João Ricardo, FELIX, Marcelo de Maria, TAKAHASHI, D. Y., AMARO JUNIOR, Edson, MORETTIN, Pedro Alberto. 2005.
- In Congresso Brasileiro de Neuroimagem Funcional Congresso Brasileiro de Neuroimagem Funcional Ribeirão Preto
- 5. BACCALÁ, Luiz Antonio, SANTOS, Lucas Manoel dos, TAKAHASHI, D. Y., SAMESHIMA, Koichi, NICOLELIS, Miguel. 2005.

In Proceedings of Society for Neuroscience Society for Neuroscience Washington DC 2005

- 6. SATO, João Ricardo, FELIX, Marcelo de Maria, TAKAHASHI, D. Y., AMARO JUNIOR, Edson, MORETTIN, Pedro Alberto. 2005.
- In ANAIS DA 11 ESCOLA DE SÉRIES TEMPORAIS 11 ESCOLA DE SÉRIES TEMPORAIS Espírito Santo 2005
- 7. CHOI, Andrea Yoon, TAKAHASHI, D. Y., VALLE, Angela Cristina Do, SAMESHIMA, Koichi. 2005. In XX Reunião anual das Federações de Sociedades de Biologia Experimental Aguas de Lindóia 2005
- TAKAHASHI, D. Y., BACCALÁ, Luiz Antonio, SAMESHIMA, Koichi. 2005.
 In XIX Reunião anual das Federações de Sociedades de Biologia Experimental Aguas de Lindóia 2005
- 9. TAKAHASHI, D. Y., BACCALÁ, Luiz Antonio, CARAMELLI, Paulo, NITRINI, Ricardo, SAMESHIMA, Koichi, 2002.

In Anais da XVII Reunião Anual da Federação de Sociedades de Biologia Experimental XVII Reunião Anual

da Federação de Sociedades de Biologia Experimental Salvador 2002Fesbe

- 10. TAKAHASHI, D. Y., GOMIDE, V., CHADI, G., 2002.
- In Anais do XVII Reunião Anual da Federação de Sociedades de Biologia Experimental Fesbe SalvadorFesbe
- 11. TAKAHASHI, D. Y., ANGHINAH, Renato, CARAMELLI, Paulo, NITRINI, Ricardo, BACCALÁ, Luiz Antonio, SAMESHIMA, Koichi. 2001.
- IN ANAIS DO 9 SIMPÓSIO INTERNACIONAL DE INICIAÇÃO CIENTÍFICADA USP 9 SIMPÓSIO INTERNACIONAL DE INICIAÇÃO CIENTÍFICADA USP Ribeirão Preto 2001
- 12. SAMESHIMA, Koichi, ANGHINAH, Renato, TAKAHASHI, D. Y., CARAMELLI, Paulo, NITRINI, Ricardo, BACCALÁ, Luiz Antonio. 2001.
- In Soc. Neurosci. Abstr. 31st ANNUAL MEETING SOCIETY FOR NEUROSCIENCE, 2001 San Diego 2001 Washington: Society for Neuroscience
- 13. TAKADA, Leonardo Tadao, BAHIA, Valéria Santoro, HUANG, Nancy, RADANOVIC, Márcia, CARTHERY, Maria Teresa, TAKAHASHI, D. Y., CAIXETA, Leonardo. 2001. In Arquivos de Neuro-Psiquiatria 59 58-58
- 14. TAKAHASHI, D. Y., ANGHINAH, Renato, CARAMELLI, Paulo, NITRINI, Ricardo, BACCALÁ, Luiz Antonio, SAMESHIMA, Koichi. 2001. In Arquivos de Neuro-Psiquiatria 59 46-46
- 15. NITRINI, Ricardo, HERRERA, H., CARAMELLI, Paulo, ALENCAR, G. P., BAHIA, Valéria Santoro, CAIXETA, Leonardo, ANGHINAH, Renato, TAKAHASHI, D. Y., TAKADA, Leonardo Tadao. 2001. In Arquivos de Neuro-Psiquiatria 59 40-40
- 16. TAKAHASHI, D. Y., VALLE, Angela Cristina Do, OLIVEIRA, M. C., SAMESHIMA, Koichi, TIMO-IARIA, C.. 2001.
- IN ANAIS DO XVI REUNIÃO DA FEDERAÇÃO DE SOCIEDADES DE BIOLOGIA EXPERIMENTAL XVI REUNIÃO DA FEDERAÇÃO DE SOCIEDADES DE BIOLOGIA EXPERIMENTAL Caxambu 2001 63-63
- 17. TAKAHASHI, D. Y., ANGHINAH, Renato, CARAMELLI, Paulo, NITRINI, Ricardo, BACCALÁ, Luiz Antonio, SAMESHIMA, Koichi. 2001.
- IN ANAIS DA XVI REUNIÃO DA FEDERAÇÃO DE SOCIEDADES DE BIOLOGIA EXPERIMENTAL XVI REUNIÃO DA FEDERAÇÃO DE SOCIEDADES DE BIOLOGIA EXPERIMENTAL Caxambu 2001 48-48
- 18. HARTMANN, Ana Paula Barbosa Jeronimo, ANGHINAH, Renato, TAKAHASHI, D. Y., CAIXETA, Leonardo, LIMA, E. E. P., SMID, Jerusa, PORTO, Claudia Sellito. 2001. In Arquivos de Neuro-Psiquiatria 59 60-60
- 19. TAKAHASHI, D. Y., CHARCHAT, H., CARAMELLI, Paulo, NITRINI, Ricardo, SAMESHIMA, Koichi. 2000. IN ANAIS DA XV REUNIÃO DA FEDERAÇÃO DE SOCIEDADES DE BIOLOGIA EXPERIMENTAL XV REUNIÃO DA FEDERAÇÃO DE SOCIEDADES DE BIOLOGIA EXPERIMENTAL Caxambu 2000 105-105
- 20. TAKAHASHI, D. Y., CHARCHAT, H., NITRINI, Ricardo, CARAMELLI, Paulo, SAMESHIMA, Koichi. 2000. In ANAIS DO XIX CONGRESSO BRASILEIRO DE NEUROLOGIA XIX CONGRESSO BRASILEIRO DE NEUROLOGIA Salvador 2000 58 87-87Associação Arquivos de Neuro-Psiquiatria Dr. Oswaldo lange

Articles in Magazines

- 1. Takahashi, D. Y., 2010. In Total Saúde, 14-14
- 2. Takahashi, D. Y.. 2010. In Total Saúde. 12-13