

Daniel Yasumasa Takahashi
Curriculum Vitae

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Personal Information

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Formal Education

- 2010 - present** Postdoctoral Research Fellow.
Department of Psychology
Princeton University, Princeton, NJ USA
Scholarship: Pew Latin American Fellowship
Supervisor: Asif Ghazanfar
- 2009 - 2010** Postdoctoral Research Fellow.
Institute of Mathematics and Statistics
Universidade de São Paulo, USP, Sao Paulo, Brazil
Scholarship: Fundação de Amparo à Pesquisa do Estado de São Paulo
Supervisor: Antonio Galves
- 2004 - 2009** PhD in Bioinformatics.
Universidade de São Paulo, USP, Sao Paulo, Brazil
(Co-guardianship) Universidade de São Paulo (Advisor : Luiz Antonio Baccalá)
Title: Medidas de Fluxo de Informação com Aplicação em Neurociência,
Advisor: Koichi Sameshima
Scholarship: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior
- 2004 - 2008** Bachelor's in Matemática Aplicada e Computacional.
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: Conselho Nacional de Desenvolvimento Científico e Tecnológico

Honors and Awards

- 2010** Pew Latin American Fellowship
- 2007** Travel Grant Award - 10th Tamagawa-Riken Dynamic Brain Forum
- 2006** Best Work Award - I Latin American School on Computational Neuroscience
- 2002** Oswaldo Cruz Award in medical research – Honorable mention
- 1997** Bronze medal – Brazilian Mathematical Olympiad
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Bibliographic Production

Articles Published in Refereed Journals

29. Ghazafar A, and TAKAHASHI DY (2014)
Facial expressions and the evolution of the speech rhythm.
Journal of Cognitive Neuroscience, in press.
28. Fujita A, TAKAHASHI DY, Patriota A (2014)
A non-parametric method to estimate the number of clusters.
Computational Statistics and Data Analysis, in press.
27. TAKAHASHI DY, Narayanan DZ, Ghazanfar AA (2013)
Coupled oscillator dynamics of vocal turn-taking in monkeys.
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26. Santos SS, TAKAHASHI DY, Nakata A, Fujita A (2013)
A comparative study of statistical methods used to identify dependencies between gene expression signals
Briefing in Bioinformatics, doi: 10.1093/bib/bbt051
25. Baccalá LA, de Brito CS, TAKAHASHI DY, Sameshima K (2013)
Unified asymptotic theory for all partial directed coherence forms
Philosophical Transactions of the Royal Society A, v. 371, 20120158
24. Sato JR., TAKAHASHI DY, Hoexeter, MQ, Massirer KM, Fujita A (2013)
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23. Gallo S, Lerasle M, TAKAHASHI DY (2013)
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22. Gallo S and TAKAHASHI DY (2012)
Attractive regular stochastic chains: perfect simulation and phase transition.
Ergodic Theory and Dynamical System, FirstView, p.1-20, <http://dx.doi.org/10.1017/etds.2013.7>
21. TAKAHASHI DY, Sato JR, Ferreira CE, Fujita A (2012)
Discriminating different classes of biological networks by analyzing the graphs spectra distribution.
PLoS ONE, v. 7(12): e49949. doi:10.1371/journal.pone.0049949
20. Ghazanfar AA, TAKAHASHI DY, Mathur NA, Fitch WT (2012)
Cineradiography of monkey lipsmacking reveals the putative origins of speech dynamics.
Current Biology, v. 22, p. 1176-1186.
19. Lerasle M and TAKAHASHI DY (2011)
An oracle approach for interaction neighborhood estimation in random fields.
Electronic Journal of Statistics, v. 5, p. 534-571.
18. TAKAHASHI DY, Baccalá LA and Sameshima K (2010)
Information theoretic interpretation of frequency domain connectivity measures.
Biological Cybernetics, v.103, p. 463-469.
17. Sato JR , TAKAHASHI DY, Arcuri SM, Sameshima K, Morettin PA, Baccalá, LA (2009)
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Human Brain Mapping, v. 30, p. 452-461.
16. Dzirasa K., Ramsey AJ, TAKAHASHI DY, Stapleton J, Potes JM, Williams JK, Gainetdinov RR, Sameshima K, Caron MG, Nicolelis MAL (2009)
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15. Raicher I, Shimizu M, TAKAHASHI DY, Nitrini R, Caramelli P (2008)
Alzheimer's disease diagnosis disclosure in Brazil: a survey of specialized physicians' current practice and attitudes.
International Psychogeriatrics, v. 20, p. 471-481.
14. TAKAHASHI DY, Baccalá L, Sameshima K (2008)
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13. Lopes RI, Nogueira L, Albertotti CJ, TAKAHASHI DY, Lopes RN (2008)
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12. Shimizu M, Raicher I, TAKAHASHI DY, Caramelli P, Nitrini R (2008)
Disclosure of the diagnosis of Alzheimer's disease: caregivers' opinions in a Brazilian sample.
Arquivos de Neuro-Psiquiatria, v. 66, p. 625-630.
11. Raicher I, TAKAHASHI DY, Kanda PAM, Nitrini R, Anghinah R (2008)
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10. TAKAHASHI DY, Baccalá LA, Sameshima K (2007)
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9. Vittelio AP, Ciriaco JG, TAKAHASHI DY, Nitrini R, Caramelli P (2007)
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Arquivos de Neuro-Psiquiatria, v. 65, p. 299-303.
8. Sato JR, Felix MM, TAKAHASHI DY, Amaro Jr E, Brammer MJ, Morettin PA (2006)
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7. Sato JR, TAKAHASHI DY, Cardoso EF, Martin MGM, Amaro Jr E, Morettin PA (2006)
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6. Nitrini R, Caramelli P, Herrera E, Castro I, Bahia VS, Anghinah R, Caixeta L, Radanovic M, Charchat-Fichman H, Porto CS, Carthery MT, Hartmann APBJ, Huang N, Smid J, Lima P, TAKAHASHI DY, Takada LT (2005)
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5. Nitrini R, Caramelli P, Herrera E, Bahia VS, Caixeta L, Radanovic M, Anghinah R, Charchat-Fichman H, Porto CS, Carthery MT, Hartmann APBJ, Huang N, Smid J, Lima P, Takada LT, TAKAHASHI DY (2005)
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4. Sameshima K, TAKAHASHI DY, Baccalá, LA (2005)
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3. Anghinah R, Caramelli P, TAKAHASHI DY, Nitrini R, Sameshima K (2005)
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2. Costa GGO, Ctenas BB, TAKAHASHI DY, Mion O, Mello JJF, Butugan O (2005)

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Book Chapters

1. TAKAHASHI DY, Baccalá LA, Sameshima K (2014)

Information Partial Directed Coherence

In: *Methods in Brain Connectivity Inference through Multivariate Time Series Analysis*, p. 75-86.

2. Baccalá LA, TAKAHASHI DY, Sameshima K (2014)

Asymptotic PDC Properties

In: *Methods in Brain Connectivity Inference through Multivariate Time Series Analysis*, p. 113-131.

3. Baccalá LA, TAKAHASHI DY, Sameshima K (2006)

Computer intensive testing for the influence between time-series

In: *Handbook of Time Series Analysis* ed: Wilterhalter; Schelter; Timmer, Springer, p. 411-435.

4. Sameshima K, TAKAHASHI DY (2004)

Métodos Quantitativos em Medicina

In: *Métodos Quantitativos em Medicina* ed. São Paulo : Manole, v.1, p. 493-526.

5. TAKAHASHI DY, Charchat H, Nitrini R, Caramelli P, Sameshima K (2000)

Exploração de redes neurais artificiais no auxílio ao diagnóstico neuropsicológico da doença de Alzheimer.

In: *Anais do I congresso de lógica aplicada à tecnologia - LAPTEC.1* ed. São Paulo : Plêiade, v.1, p. 359-371.

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1. Brito SC, Baccalá LA, TAKAHASHI DY, Sameshima K (2010)

Asymptotic behavior of generalized partial directed coherence

IEEE Engineering in Medicine and Biology Society. Conf., v.1, p.1718 - 1721.

2. TAKAHASHI DY, Baccalá LA, Sameshima K (2010)

Frequency domain connectivity: an information theoretic perspective

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3. Baccalá LA, TAKAHASHI DY, Sameshima K (2007)

Generalized Partial Directed Coherence

International Conference on Digital Signal Processing, v.1. p.162 - 166

4. TAKAHASHI DY, Charchat H, Caramelli P, Nitrini R, Sameshima K

Análise da não-linearidade do modelo diagnóstico neuropsicológico da doença de Alzheimer por redes neurais artificiais

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In: *Neuroscience 2006*, 2006, Atlanta.

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2. SAMESHIMA, Koichi, TAKAHASHI, D. Y., BACCALÁ, Luiz Antonio
In: Neuroscience 2006, 2006, Atlanta.
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3. TAKAHASHI, D. Y., SATO, João Ricardo, SAMESHIMA, Koichi, BACCALÁ, Luiz Antonio, MORETTIN, Pedro Alberto, GALVES, Antonio
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 , 2005.
4. SATO, João Ricardo, FELIX, Marcelo de Maria, TAKAHASHI, D. Y., AMARO JUNIOR, Edson, MORETTIN, Pedro Alberto
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5. BACCALÁ, Luiz Antonio, SANTOS, Lucas Manoel dos, TAKAHASHI, D. Y., SAMESHIMA, Koichi, NICOLELIS, Miguel
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6. SATO, João Ricardo, FELIX, Marcelo de Maria, TAKAHASHI, D. Y., AMARO JUNIOR, Edson, MORETTIN, Pedro Alberto
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8. TAKAHASHI, D. Y., BACCALÁ, Luiz Antonio, SAMESHIMA, Koichi
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 , 2005.
9. TAKAHASHI, D. Y., BACCALÁ, Luiz Antonio, CARAMELLI, Paulo, NITRINI, Ricardo, SAMESHIMA, Koichi
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13. TAKADA, Leonardo Tadao, BAHIA, Valéria Santoro, HUANG, Nancy, RADANOVIC, Márcia, CARTHERY, Maria Teresa, TAKAHASHI, D. Y., CAIXETA, Leonardo
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14. TAKAHASHI, D. Y., ANGHINAH, Renato, CARAMELLI, Paulo, NITRINI, Ricardo, BACCALÁ, Luiz Antonio, SAMESHIMA, Koichi
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15. NITRINI, Ricardo, HERRERA, H., CARAMELLI, Paulo, ALENCAR, G. P., BAHIA, Valéria Santoro, CAIXETA, Leonardo, ANGHINAH, Renato, TAKAHASHI, D. Y., TAKADA, Leonardo Tadao
In:

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16. TAKAHASHI, D. Y., VALLE, Angela Cristina Do, OLIVEIRA, M. C., SAMESHIMA, Koichi, TIMO-IARIA, C.
In: XVI REUNIÃO DA FEDERAÇÃO DE SOCIEDADES DE BIOLOGIA EXPERIMENTAL, 2001, Caxambu.

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17. TAKAHASHI, D. Y., ANGHINAH, Renato, CARAMELLI, Paulo, NITRINI, Ricardo, BACCALÁ, Luiz Antonio, SAMESHIMA, Koichi

In: XVI REUNIÃO DA FEDERAÇÃO DE SOCIEDADES DE BIOLOGIA EXPERIMENTAL, 2001, Caxambu.

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18. HARTMANN, Ana Paula Barbosa Jeronimo, ANGHINAH, Renato, TAKAHASHI, D. Y., CAIXETA, Leonardo, LIMA, E. E. P., SMID, Jerusa, PORTO, Claudia Sellito

In:

Arquivos de Neuro-Psiquiatria. , 2001. v.59. p.60 - 60

19. TAKAHASHI, D. Y., CHARCHAT, H., CARAMELLI, Paulo, NITRINI, Ricardo, SAMESHIMA, Koichi

In: XV REUNIÃO DA FEDERAÇÃO DE SOCIEDADES DE BIOLOGIA EXPERIMENTAL, 2000, Caxambu.

ANAIS DA XV REUNIÃO DA FEDERAÇÃO DE SOCIEDADES DE BIOLOGIA EXPERIMENTAL. , 2000.
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20. TAKAHASHI, D. Y., CHARCHAT, H., NITRINI, Ricardo, CARAMELLI, Paulo, SAMESHIMA, Koichi

In: XIX CONGRESSO BRASILEIRO DE NEUROLOGIA, 2000, Salvador.

ANAIS DO XIX CONGRESSO BRASILEIRO DE NEUROLOGIA. Associação Arquivos de Neuro-Psiquiatria Dr. Oswaldo Lange, 2000. v.58. p.87 - 87

Articles in Magazines

1. Takahashi, D. Y.

Total Saúde. , v.30, p.14 - 14, 2010.

<http://www.revistatotalsaude.com.br/Default.aspx?Tabid=55&ItemID=128>

2. Takahashi, D. Y.

Total Saúde. , p.12 - 13, 2010.

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