CURRICULUM VITAE

Braunstein, Lidia Adriana.

I. EDUCATION:

- ***Licenciatura en Física***: Universidad Nacional de Buenos Aires, (UBA) Argentina.
- ***Doctorado en Ciencias Físicas***: Universidad Nacional de Mar del Plata, (UNMDP), Argentina (1999).
- ***Postdoctoral position as visiting scholar***: Center for Polymer Studies, Boston University, Boston, MA, USA (2000-2003).

II. EMPLOYMENT

- ***Visiting Professor***, Boston University, USA, en Redes Complejas.
- ***Professor*** UNMdP, Argentina.

III. DIRECTION OF RESEARCH GROUPS

Sistemas Complejos, 2009- actualidad
Investigators: Dr. Rubén C Buceta, Dr. Cristian La Rocca, Dr. Lucas D. Valdez, Dr. Lucila Alvarez Zuzek, Dr. Marcos Fernando Torres Rasmussen, Lic. Matías A. Di Muro.

IV. PI IN PROJECTS

1. "Dinámica y control de procesos catastróficos en redes complejas interdependientes y multicapas", FCEyN, UNMdP, Argentina, EXA: 853/18, 15/E811,

(2018-2019).

2. "Procesos en redes complejas interdependientes y multicapas", FCEyN, UNMdP, Argentina (2016-2017) EXA: 752/16, 15/E703 .

3. "Estudio de procesos dinámicos acoplados en redes complejas multicapas", CONICET, PIP 2014/00443.

4. "Estrategias de Mitigación de Cascada de Fallas y de Epidemias en Redes Interdependientes", ANPCyT, PICT 2013/0429.

5. "Procesos en redes complejas interdependientes y multicapas", FCEyN, UNMdP, Argentina (2014-2015) EXA: 652/14, 15/E602.

6. "Transporte en redes Complejas IV", FCEyN, UNMdP, Argentina (2012-2013) EXA: 559/12, 15/E507.

7. "Transporte en redes Complejas III", FCEyN, UNMdP, Argentina (2010-2011) EXA:474/10, 15/E422. Informe aprobado.

8. "Estudio del efecto del desorden en los contactos en la propagación de enfermedades en Redes Complejas", ANPCyT, Pict 2008/0293.

9. "Transporte en redes Complejas II", FCEyN, UNMdP, Argentina (2008-2010). EXA:389/08.

10. "Transporte en redes Complejas", FCEyN, UNMdP, Argentina (2006-2007).

11. "Transporte en redes Complejas", ANPCyT, Pict 2005/32353 (2006-2009).

12. " REDES AMENAZADAS: Estabilización e Inmunización de Redes", ANPCyT, Picto 2004/370.

13. "Laboratorio de Fisica Virtual II", Depto de Física, FCEyN, UNMdP, Argentina (2005).

14. "Laboratorio de Fisica Virtual", Depto de Física, FCEyN, UNMdP, Argentina (2004).

15. “Construyendo un puente entre lo Microscópico y lo Macroscópico”, Depto de Física, FCEyN, UNMdP, Argentina. OCA 824/2000.

V. PH.D. THESES SUPERVISED

1. Lucila G. Alvarez Zuzek, December 13 2018 (Advisor).
2. Marcos F. Torres Rasmussen, 16 de Marzo del 2018 (Coadvidsor).
3. Lucas D. Valdez, March 14 2016 (Advisor).
4. Camila Buono, March 12 2015 (Advisor).
5. Cecilia Lagorio, July 11 2014 (Advisor).
6. Cristian Ernesto La Rocca, March 23 2012 (Advisor).
7. Ana Laura Pastore y Piontti, December 12 2011 (Advisor).
8. Zhenhua Wu, CPS, Boston University, December 2007 (Coadvisor).

VI. LICENCIATURA THESES SUPERVISED

1. ***Tesis de Licenciatura en Física,***: “ Propagación y mitigación de enfermedades en redes aisladas” Ignacio A. Perez IFIMAR, Depto de Física, FCEyN, CONICET-UNMdP, CONICET, 1 de Abril del 2019.
2. ***Tesis de Licenciatura*** en Física, “Vacunación Dinámica en Redes Multiplex”, Martín Daniel de De Cicco, IFIMAR, Depto de Física, FCEyN, CONICET-UNMdP. Diciembre 2017. Directora Dra. L. A. Braunstein
3. ***Tesis de Licenciatura*** en Física, “Modelo de crecimiento de Interfaces en Redes Interactuantes”, Matías A. Di Muro , IFIMAR, Depto de Física, FCEyN, CONICET-UNMdP, Marzo del 2015.
4. ***Tesis de Licenciatura*** en Física, “Modelo de crecimiento de interfases en redes aisladas y redes multicapas”, Débora Torres , IFIMAR, Depto de Física, FCEyN, CONICET-UNMdP, Noviembre del 2014.

5. ***Tesis de Licenciatura*** en Física, "Propagación de epidemias en redes multicapas superpuestas", Lucila Alvarez Zuzek , IFIMAR, Depto de Física, FCEyN, CONICET-UNMdP, March 2014.

6. ***Tesis de Licenciatura*** en Física, "Efecto de las Correlaciones en el Transporte de Enfermedades", Lucas Daniel Valdez , IFIMAR, Depto de Física, FCEyN, CONICET-UNMdP (2009-2010).

7. ***Tesis de Licenciatura*** en Física "Ecuación de evolución para el crecimiento de interfaces en redes al azar", Cristian Ernesto La Rocca, Depto de Física, FCEyN, UNMdP (2006-2007). June 19 2007.

8. ***Tesis de Licenciatura*** en Física "Modelo para el proceso de arbolado del experimento de electrodeposición de plata ", Ana Laura Pastore y Piontti, Depto de Física, FCEyN, UNMdP, (2006-2007). June 15 2007.

9. ***Tesis de Licenciatura*** en Física, "Crecimiento de Interfaces con Procesos Competitivos", Diego Muraca, Depto de Física, FCEyN, UNMdP (2004-2005).

VII. PUBLICATIONS

A. Published

1. M. A. Di Muro, L. D. Valdez, S. V. Buldyrev, H. E. Stanley and L. A. Braunstein, "Insights into bootstrap percolation: Its equivalence with k-core percolation and the giant component", Phys. Rev. E **99**, 022311 (2019).

2. L. G. Alvarez-Zuzek, M. A. Di Muro, S. Havlin, L. A. Braunstein, "Dynamic vaccination in partially overlapped multiplex network", Phys. Rev. E **99**, 012302, (2019).

3. W. Wang, M. Tang, H. E. Stanley and L. A. Braunstein, "Social contagions with communication channel alternation on multiplex networks", Phys. Rev E **98**, 062320, (2018).

4. L. D. Valdez, H. A. Rego, H. E. Stanley, S. Havlin, and L. A. Braunstein, "The role of bridge nodes between layers on epidemic spreading", New Journal of Physics, **20**, 125003, (2018).

5. M. A. Di Muro, G. Alvarez-Zuzek, S. Havlin and L. A. Braunstein, "Multiple outbreaks in epidemic spreading with local vaccination and limited vaccines", New Journal of Physics, **20**, 083025(2018).

6. P. Shu, W. Wang. H. E. Stanley and Lidia A.Braunstein," A general social contagion dynamic in interconnected lattices", Physica A, **511**, 272, (2018)

7. C. E. La Rocca, H. E. Stanley and L. A. Braunstein "Strategy for stopping failure cascades in interdependent networks", Physica A, **508**, 577-583, (2018).

8. X. Chen, W. Wang, S. Cai, H. E. Stanley, L. A. Braunstein "Optimal resource diffusion for suppressing disease spreading in multiplex networks", Journal of Statistical Mechanics: Theory and Experiment, **2018**, 053501, (2018).

9. Z. Su, W. Wang, L. Li, H. E. Stanley and L. A. Braunstein, "Optimal community structure for social contagions", New Journal of Physics, **20**, 053053, (2018).

10. X. Chen, R. Wang, S. Cai, H. E. Stanley and L. A. Braunstein " Suppressing the epidemic spreading in multiplex networks with social-support", New Journal of Physics, **20**, 013007 url=http://stacks.iop.org/1367-2630/20/i=1/a=013007, (2018).

11. W. Wei, H. E. Stanley and L. A. Braunstein, " Effect of time-delays in the dynamics of social contagions", New Journal of Physics, **20**, 01304, (2018).

12. M. A. Di Muro, L. D. Valdez, H. H. Aragao Rêgo, S. V. Buldyrev, H. E. Stanley and L. A. Braunstein, "Cascading failures in interdependent networks with multiple interdependencies", Scientific Reports, **7**, https://doi.org/10.1038/s41598-017-14384-y (2017).

13. L. G. Alvarez-Zuzek, C. E. La Rocca, J. R. Iglesias and L. A. Braunstein, "Epidemic spreading influenced by opinion formation in multiplex networks", PLoS ONE **12**, 1-14, e0186492. https://doi.org/10.1371/journal.pone.0186492(2017).

14. S. Hong, J. Zhu, L. A. Braunstein, T. Zhao, and Q. You, "Cascading failure and recovery of spatially interdependent networks", Journal of Statistical Mechanics: Theory and Experiment, **2017**, 103208 (2017).

15. L. Gao, W. Wang and L. A. Braunstein,"Promoting information spreading by using of contact's memory", Europhysics Letter **118**, 18001 (2017).

16. Wei Wang, Ming Tang1, H Eugene Stanley and Lidia A Braunstein "Unification of theoretical approaches for epidemic spreading on complex networks", Rep. Prog. Phys. **80**, 036603 (2017).

17. M. A. Di Muro, S. V. Buldyrev, H. E. Stanley, and L. A. Braunstein. "Cascading failures in interdependent networks with finite functional components", Phys. Rev. E **94**, 042304 (2016).

18. L. G Alvarez-Zuzek, C. E La Rocca, F. Vazquez and L. A. Braunstein "Interacting Social Processes on Interconnected Networks", PLoS ONE 11(9): e0163593. doi: 10.1371/journal.pone.0163593 (2016).

19. L. D. Valdez, M. A. Di Muro and L. A. Braunstein "Failure-recovery model with competition between failures in complex networks: a dynamical approach". Journal of Statistical Mechanics: Theory and Experiment (JSTAT) Online at stacks.iop.org/JSTAT/2016/093402 doi:10.1088/1742-5468/2016/09/093402 (2016).

20. Wei Wang, Quan-Hui Liu, Shi-Min Cai, Ming Tang, Lidia A. Braunstein and H. Eugene Stanley. "Suppressing disease spreading by using information diffusion on multiplex networks", Scientific Reports **6**, doi:10.1038/srep29259 (2016).

21. M. F. Torres, C. E. La Rocca and L. A. Braunstein, "Fluctuations of a surface relaxation model in interacting scale free networks", Physica A: Statistical Mechanics and its Applications **463**, 182âĂŞ187, (2016).

22. M. A. Di Muro, C. E. La Rocca, H. E. Stanley, S. Havlin and L. A. Braunstein, "Recovery strategy on interdependent networks", Scientific Reports **6**, Article number: 22834, doi:10.1038/srep22834 (2016).

23. A. Majdandzic, L. A. Braunstein, C. Curme, I. Vodenska, S. Levy-Carciente, H. Eugene Stanley and S. Havlin, "Multiple Tipping Points and Optimal Repairing in Interacting Networks", Nature Communications, **7**, 10850, DOI: 10.1038/ncomms10850 (2016).

24. M. F. Torres, M. A. Di Muro, C. E. La Rocca and L. A. Braunstein, "Synchronization in interacting Scale Free Network", Europhysics Letter **111**, 46001 (2015).

25. L. D. Valdez, Hênio Henrique Aragão Rêgo, H. E. Stanley and L. A. Braunstein, "Predicting the extinction of Ebola spreading in Liberia due to mitigation strategies", Scientific Reports, Nature (2015), Sci. Rep. **5** Article number: 12172, doi:10.1038/srep12172 (2015).

26. L. Alvarez Zuzek, H. E. Stanley and L. A. Braunstein, "Epidemic model with isolation in multilayer networks", Scientific Reports, Nature (2015), Sci. Rep. **5**, 12151; doi:10.1038/srep12151 (2015).

27. L. Alvarez Zuzek, C. Buono and L. A. Braunstein, "Epidemic spreading and immunization strategy in multiplex networks", Journal of Physics: Conference Series **640**, 012007 (2015).

28. D. Torres, M. A. Di Muro, C. E. La Rocca, and L. A. Braunstein, "Synchronization in Scale Free networks: The role of finite size effects", Europhysics Letters **110**, 66001 (2015).

29. L. Fen, Y. Hu, B. Li, H. E. Stanley, S. Havlin, L. A. Braunstein, ISSN: 1286-4854, "Competing for Attention in Social Media under Information Overload Conditions", PLoS ONE 10(7): e0126090. doi:10.1371/journal.pone.0126090 (2015).

30. C. Buono and L. A. Braunstein, " Immunization strategy for epidemic spreading on multilayer networks ", Europhys. Lett. **109**, 26001 (2015).

31. Hênio Henrique Aragão Rêgo, Sasuke Miyazima, Lidia A. Braunstein, Gregorio D'Agostino and H. Eugene Stanley, "When a Text is Translated Does

the Complexity of Its Vocabulary Changes?" PLoS ONE 9(10): e110213. doi:10.1371/journal.pone.0110213 (2014).

32. C. E. La Rocca, L. A. Braunstein y F. Vazquez, "The influence of persuasion in opinion formation and polarization", EuroPhys. Lett. **106**, 40004 (2014).

33. C. Buono, L. G. Alvarez Zuzek, P. A. Macri and L. A. Braunstein, " Epidemics in partially overlapped multiplex networks", PLoS ONE 9(3): e92200. doi:10.1371/ journal.pone.0092200 (2014).

34. L. D. Valdez, C. Buono, P. A. Macri and L. A. Braunstein, " Social distancing strategies against disease spreading", "Perspectives and Challenges in Statistical Physics and Complex Systems for the Next Decade", Word Scientific, Perspectives and Challenges in Statistical Physics and Complex Systems for the Next Decade, ISBN: 978-981-4590-13-6 (2014).

35. L. D . Valdez, P. A. Macri and L. A. Braunstein, "Triple point induced by targeted autonomization on interdependent scale free networks", J. Phys. A: Math. Theor. **47** 055002 (2014).

36. L. D . Valdez, P. A. Macri, H. E. Stanley and L. A. Braunstein " Triple point in correlated interdependent networks ", Phys. Rev. E, **88**, 050803(R) (2013).

37. L. D. Valdez, C. Buono, P. A. Macri and L. A. Braunstein, "Social distancing strategies against disease spreading", Fractals, **21**, Nos. 3 & 4 1350019 (2013).

38. C. Buono, F. Vazquez, P. A. Macri and L. A. Braunstein "Slow epidemics extinction in populations with heterogeneous contacts.", Phys. Rev E, **88** , 022813,(2013).

39. L. D. Valdez, P. A. Macri and L. A. Braunstein, " Temporal percolation of a susceptible adaptive network", Physica A **392**, 4172-4180 (2013). DOI : 10.1016/j.physa.2013.05.003 (2013).

40. C. E. La Rocca, L. A. Braunstein and P. A. Macri, "Competition between surface relaxation and ballistic deposition in scale free networks", EuroPhys. Lett. **101**, 16004 (2013).

41. L. A. Braunstein, P. A. Macri and J. R. Iglesias, "Network effects on a conservative exchanges market model", Physica A **392**, 1788 (2013).

42. Q. Li, L. A. Braunstein, H. Wang, J. Shao, H. E. Stanley, and S. Havlin, " Non-consensus opinion models on complex networks", J. Stat. Phys. DOI 10.1007/s10955-012-0625-4 (2013).

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46. E. López and L. A. Braunstein, "Disorder Induced Limited Path Percolation", EuroPhys Lett. **97**, 66001 (2012).

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48. C. Lagorio, M. Dikinson, Federico Vazquez, L. A. Braunstein, P. A. Macri, S. Havlin and H. E. Stanley, "Quarantine generated phase transition in epidemic spreading", Phys. Rev. E **83**, 026102 (2011).

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51. A. L. Pastore y Piontti, L. A. Braunstein and P. A. Macri, " Jamming in complex networks with degree correlation", Physics Letters A **374**, 4658 (2010).

52. M. V. Migueles, C. Lagorio, P. A. Macri and L. A. Braunstein, "Modeling Epidemics Propagation on Virtual Cities", Proceedings of The IV Meeting on Dynamics of Social and Economic Systems, Adv. & Appl. Stat. Sci. Vol. **2**, Issue 2 (A. L. Plastino and A. N. Proto Eds.) (2010).

53. C. E. La Rocca, L. A. Braunstein and P. A. Macri, "Conservative model for synchronization problems in complex networks", Phys. Rev. E **80**, 026111 (2009).

54. Roni Parshani, L. A. Braunstein y S. Havlin, "Structural crossover of polymers in disordered media", Phys. Rev. E (Rapid Communication) **79**, 050102(R) (2009).

55. C. Lagorio, M. V. Migueles, L. A. Braunstein, E. López and P. A. Macri, 'Effects of epidemic threshold definition on disease spread statistics", Physica A, **388**, 755-763 (2009).

56. J. Shao, S. V Buldyrev, L. A. Braunstein, S. Havlin and H. E. Stanley, "Structure of shells and correlations in complex networks", Phys. Rev. E **80**, 036105, (2009).

57. C. E. La Rocca, A. L. Pastore y Piontti, L. A. Braunstein and P. A. Macri, "A mechanism to synchronize fluctuations in scale free networks using growth models", Physica A, **388** 233-239 (2009).

58. C. E. La Rocca, L. A. Braunstein y P. A. Macri, "Analytic Equation for the Model of Surface Relaxation in Random Graphs", Phys. Rev. E **77**, 046120 (2008).

59. A. L. Pastore y Piontti, C. E. La Rocca, Zoltán Toroczkai, L. A. Braunstein, P. A. Macri y E. López. "Using relaxational dynamics to reduce network congestion", New Journal of Physics **10**, 093007 (2008).

60. A. L. Pastore y Piontti, P. A. Macri, L. A. Braunstein, "Discrete surface growth process as a synchronization mechanism for scale free complex networks", Phys. Rev. E **76**, 046117 (2007).

61. Z. Wu, C. Lagorio, L. A. Braunstein, R. Cohen, S. Havlin and H. E. Stanley, "Numerical evaluation of the upper critical dimension of percolation in scale-free networks", Phys. Rev. E **75**, 066110 (2007).

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66. A. L. Pastore y Piontti, C. E. La Rocca y L. A. Braunstein, "Modelado de un proceso de agregación en presencia de un campo Model for an aggregation process in presence of a field", Anales de la AFA, publicaciones de AFA, **18**, 47-51 (2007).

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79. Sameet Sreenivasan, Lidia A. Braunstein, Sergey V. Buldyrev, Shlomo Havlin and H. Eugene Stanley, *Effect of disorder strength on optimal paths in complex networks*, Phys. Rev. E **70**, 046133-1/046133-6 (2004)

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B. Preprints

98. X. Zhang, L. D. Valdez, H. E. Stanley, L. A. Braunstein. *Modeling risk contagion in the venture capital market: A weighted multilayer network approach* (2019).

99. L. D. Valdez, L. Shekhtman, C. E. La Rocca, X. Zhang, S. V. Buldyrev, H. E. Stanley, L. A. Braunstein, and S. Havlin. *Cascading Failure in Complex Networks*. Revisión con invitación del Phys. Rev. Nature (En preparación 2019).

100. W. Wang, Y. Ma, T. Wu, Y. Dai, X. Chen, and L. A. Braunstein. *Containing misinformation spreading in temporal social networks* (2019).

101. M. A. Di Muro, S. V. Buldyrev and L. A. Braunstein. *Reversible bootstrap percolation* (2019).

VIII. RESEARCH IN OTHER INSTITUTIONS

- Center for Polymer Studies, Boston University, Boston, MA, USA

    1. October 15 to November 26 2003.
    2. June 25 to August 8 2004.
    3. September 8-15 2004.
    4. November 22 to December 3 2004.
    5. July 11 to August 1 2005.

6. January 5 to 11 and 22 January 22 to February 7 2006.
7. July 23 to August 21 2007.
8. January 27 to February 13 2008.
9. August 4 to 21 2008.
10. January 14 to 31 2009.
11. August 3 to 14 2009.
12. March 29 to April 19 2010.
13. January 10 to February 4 2011.
14. March 14 to April 2011.
15. July 18 to August 10 2011.
16. January 24 to February 12 2012.
17. July 23 to August 22 2012.
18. January 12 to February 13 2013.
19. July 24 to August 4 2013.
20. 25 December 2013 to 23 January 2014.
21. July 24 to August 26 2014.
22. December 25 to January 26 2015.
23. October 25 to November 5 2015.
24. January 9 to February 9 2016.
25. July 11 Julio to August 11 2016.
26. October 23 to November 11 2016.
27. January 11 to February 17 2017.
28. July 18 to August 8 2017.
29. December 24 2017 to January 30 2018.
30. 13 to 24 May 2018.
31. July 10 to August 8 2018.

32. December 14 to February 13 2019.

33. April-March 2019.

- Center for Non Linear Studies (CNLS), Los Alamos Laboratory, Los Alamos, NM, USA

    1. 11 to 25 July 2005.

    2. 11 to 21 January 2006.

IX. COLABORATIONS

- Center for Polymer Studies, Boston University, Boston, MA, USA.

- Minerva Center and Department of Physics, Bar-Ilan University, 52900 Ramat-Gan, Israel.

- Department of Applied Physics, Hong Kong Polytechnic University, Hong Kong, China.

- Center for Non Linear Studies (CNLS), Los Alamos Laboratory, Los Alamos, NM, USA.

- Dr. Oreste Carlino del Ministerio de Salud de la Nación y Director de epidemiología a cargo del Plan de Contingencia de Gripe Aviar y Dr. Osvaldo Uez, del INE (Instituto Nacional de epidemiología : Dr. Juan H. Jara).

X. PRESENTATIONS TO WORKSHOPS

A. Invited

1. *Self Avoiding Walks in Strong Disorder*, L. A. Braunstein, S. V. Buldyrev, S. Havlin and H. E. Stanley, 85th Statistical Mechanics Conference, Rutgers University, New Jersey, USA, May 6-8 2001

2. *Threat Networks and Threatened Networks: Immunizing Very Large, Disordered Networks*. L. A. Braunstein, S. Havlin, G. Paul anf H. E. Stanley, Social Networking Planning Meeting, Program Review, National Academy of Sciences, Washington, DC, September 7-8, 2004

3. *Optimal Paths in Disordered Networks*. L.A. Braunstein, Yeshiva Universty, New York, November 22, 2004.

4. *Length of the Optimal Paths in Disordered Complex Networks*. L.A. Braunstein, Center for Non Linear Physics, Los Alamos National Laboratory, Los Alamos, NM, July 22, 2005.

5. *Model an analytical equation for a model of surface relaxation in Complex Networks*. L.A. Braunstein, C. E. La Rocca and A. L. Pastore y Pionti, Center for Polymer Studies, Boston University, MA, USA July 22, 2007.

6. *Effects of epidemic threshold definition on disease spread statistic*. L.A. Braunstein and C. Lagorio, Center for Polymer Studies, Boston University, MA, USA August 14, 2007.

7. *Using relaxational dynamics to reduce network congestion*. L. A. Braunstein, C. E. La Rocca and A. L. Pastore y Piontti, THE SCIENCE OF COMPLEXITY, Princess Hotel, Eilat, Israel March 30, 2009.

8. *Epidemic spreading on evolving networks: a quarantine-generated phase transition*, F. Vazquez, L. A. Braunstein and C.Lagorio. ECCS 2011, Vienna, September 15th 2011.

9. *Quarantine-generated phase transition*, L. A. Braunstein, C. Lagorio, M. Dickinson, F. Vazquez, P.A. Macri, S. Havlin and H. E. Stanley, Perspectives and Challenges in Statistical Physics andÂăComplex Systems for the Next Decade: Conference in Honor of Eugene Stanley and Liacir Lucena, Natal, Brasil, 9-11 Noviembre 2011.

B. Comunications

1. *Exact. vs. Quantum Monte Carlo analysis of the ground state of the 1D Hubbard model for finite lattices*. L. A. Braunstein y R. Deza. Conference in "New directions on Statistical Physics",Brasilia, April de 1990.

2. *Exact. vs. Quantum Monte Carlo analysis of the ground state of the 1D Hubbard model for finite lattices*. L. A. Braunstein y R. Deza. Workshop in nonlinear Physics -Medyfinol 90-, Santiago de Chile, September (1990).

3. *Diffusion vs. probability of reaction in 1d for short time regime*. L. A. Braunstein y H. O. MÃąrtin. Workshop in Nonlinear Phenomena -Medyfinol 91 and Lawnp91-. Mar del Plata, June (1991).

4. *Scaling in reaction $A + A \rightarrow 0$ with a probability of successful*. L. A. Braunstein y H. O. MÃąrtin. XV International Workshop on Condensed Matter. Mar del Plata. Argentina, July (1991).

5. *Diffusion vs. probability of reaction in 1d for short time regime*. L. A. Braunstein y H. O. MÃąrtin. Conference on “Disordered Systems’. Centro Internacional de Física da Materia Condensada-CIFMC. Universidad de Brasilia, Brazil. September (1991).

6. *Effects of probability of reaction on annhilation reactions in one dimension*. L. A. Braunstein y H. O. MÃąrtin. Escuela Latinoamericana de FÃŋsica 1992: Elaf-92 UNAM, Ciudad. de México, México, June-July (1992).

7. *Bacterial growing attached to an inert media*. L. A. Braunstein. VIII Meeting on Non-Equilibrium Statistical Mechanics and Nonlinear Physics, Medyfinol 94, Montevideo, Uruguay, October 31-November 4 (1994).

8. *Bacterial growing attached to an inert media*. L. A. Braunstein. IV Escuela de Verano en Física Estadistica y Sistemas Cooperativos, Fiesta 94. Santiago, Chile, 12-16 December 1994.

9. *Nucleation Model for diffusion-limited coalescence with finite reactions rates in one dimension*. L. Braunstein and R. C. Buceta. IX Meeting on Non-Equilibrium Statistical Mechanics and Nonlinear Physics, Medyfinol 1995 and Lawnp95, Bariloche, 25-29 September (1995).

10. *Nucleation Model for diffusion-limited coalescence with finite reactions rates in one dimension*. L. Braunstein and R. C. Buceta. XII Simposio Latino Americano de Física do Estado Sólido (SLAFES), Gramado, Porto Alegre, Brasil, 5 to 10 November (1995).

11. *Nucleation Model for diffusion-limited coalescence with finite reactions rates in one dimension*. L. Braunstein and R. C. Buceta.6th International Workshop on Instabilities and Non-Equilibrium Structures, Valparaiso, Chile, December 14-19, 1995.

12. *Significative learning Dynamics: Probabilistic Cellular Automaton Model*. R. C. Buceta, L. A. Braunstein, G. Dell'Oro and M. L. Maldonado.IX Meeting on Non-Equilibrium Statistical Mechanics and Nonlinear Physics, Medyfinol 1995, Bariloche, 25-29 de September de 1995.

13. *Significative learning Dynamics: Probabilistic Cellular Automaton Model*. R. C. Buceta, L. A. Braunstein, G. Dell'Oro and M. L. Maldonado. XII Simposio Latino Americano de Física do Estado Solido (SLAFES), Gramado, Porto Alegre, Brasil, 5-10 November 1995.

14. *Laser dynamics in symmetric double-ring cavities*, C. D. Archubi, R. C. Buceta and L. A. Braunstein. X Meeting on Non-Equilibrium Statistical Mechanics and Nonlinear Physics, Medyfinol 1996, Horco Molle (Tucumán), September 30 to October 4 1996.

15. *Evolution Equation for the dynamics of growing interfaces in porous media*. L. A. Braunstein, R. C. Buceta y A. Díaz-Sánchez. X Meeting on Non-Equilibrium Statistical Mechanics and Nonlinear Physics, Medyfinol 1996, Horco Molle (Tucumán), September 30 to October 4 1996.

16. *Evolution Equation for the dynamics of growing interfaces in porous media*. L. A. Braunstein, R. C. Buceta y A. Díaz-Sánchez. 7th International Workshop on Instabilities and Non-Equilibrium Structures, Valparaiso, Chile, December 14-19, 1997.

17. *Growing interfaces in quenched disordered media*, L. A. Braunstein, R. C. Buceta y A. Díaz-Sánchez, International Conference on Percolation and Disordered Systems - Theory and Applications -, Schloβ Rauischholzhausen, Marburg, Alemania, July 14-17 (1998).

18. *Macroscopic equation for the roughness of growing interfaces in quenched disordered media*, L. A. Braunstein y R. C. Buceta, XX-th IUPAP International Conference on Statistical Physics, STATPHYS 20, Paris, Francia, July 20-24 (1998).

19. *Macroscopic equation for the roughness of growing interfaces in quenched disordered media*, L. A. Braunstein, R. C. Buceta and N. Giovambattista, 1st Latin American Summer School on Material Instabilities, Valparaiso, Chile, November 30-December 5 (1998).

20. *Directed percolation depinning models: Evolution Equations*, L. A. Braunstein, R. C. Buceta, N. Giovambattista and A. Díaz-Sánchez, 1st Latin American Summer School on Material Instabilities, Valparaiso, Chile, November 30-December 5 (1998).

21. *Does the quenched Kardar-Parisi-Zhang equation describe the directed percolation depinning models*, L. A. Braunstein, R. C. Buceta and A. Díaz-Sánchez, Latin American Workshop in Nonlinear Physics, Lawnp99, Córdoba, Argentine, October 12-16 (1999).

22. *Langevin Equation deduced for a directed percolation depinning model , C. A. Archubi, L. A. Braunstein and R. C. Buceta*, Latin American Workshop in Nonlinear Physics, Lawnp99, Córdoba, Argentine, October 12-16 (1999).

23. *Langevin Equation deduced for a directed percolation depinning model*, C. A. Archubi, L. A. Braunstein and R. C. Buceta, 8th International Workshop on

Instabilities and Non-Equilibrium Structures, Valparaiso, Chile, December 14-19, 1999.

24. *The Transition From Strong to Weak Disorder*, S. Sreenivasan, Tomer Kalisky, L. A. Braunstein, S. V. Buldyrev, S. Havlin and H. E. Stanley, Statphys Kolkata V, Kolkata, India, June 25-July 1 (2004).

25. *The Optimal path transition on Disordered Complex Networks* Sameet Sreenivasan, Tomer Kalisky, Lidia A. Braunstein, Sergey V. Buldyrev, Shlomo Havlin and H. Eugene Stanley, Statphys 22, Bangalore, India, July 4 to 9, 2004.

26. *Current Flow in Random Resistor Networks: The Role of Percolation in Weak and Strong Disorder* Wu, Zhenhua; Buldyrev, Sergey; Braunstein, Lidia; Havlin, Shlomo; Stanley, Eugene Publication: American Physical Society, APS March Meeting, March 21-25, 2005, Publication Date: 03/2005.

27. *Modelo para el proceso de arbolado de la electrodeposición de plata*, Ana Pastore y Piontti, Cristian La Rocca y Lidia A. Braunstein, TREFEMAC'05,National Meeting of the Argentinean Physical Society, La Plata, June 22 al 24 de 2005.

28. *Model for the treeing process of the silver electrodeposition experiment*, Ana Pastore y Piontti, Cristian La Rocca y Lidia A. Braunstein, IX Lawnp, San Carlos de Bariloche, Octubre 28 al 28 de 2005.

29. *Effect of Disorder Strength on Optimal Paths in Complex Networks* Sameet Sreenivasan , Tomer Kalisky , Lidia A. Braunstein , Sergey V. Buldyrev , Shlomo Havlin , H. Eugene Stanley , Publication: American Physical Society, APS March Meeting, March 21-25, 2005.

30. *Longitud del Camino ÃŞptimo en Redes Complejas*, L. A. Braunstein TREFEMAC'05,National Meeting of the Argentinean Physical Society, La Plata, June 22 al 24 del 2005.

31. *EcuaciÃşn de evoluciÃşn para el crecimiento de inter- faces en redes al azar*, Cristian E. La Rocca, Ana L. Pastore, Piontti, Pablo Macri, Lidia A. Braunstein. Trefemac 2007,V Taller Regional de FÃŋsica EstadÃŋstica y Aplicaciones

a la Materia Condensada, Universidad TecnolÃşgica Nacional Facultad Regional San Rafael San Rafael 30 de Abril al 02 de Mayo de 2007.

32. *Redes de contactos para modelos epidemiolÃşgicos* , C. Lagorio, M. Migueles, P. Macri, L. A. Braunstein, Trefemac 2007,V Taller Regional de FÃŋsica EstadÃŋstica y Aplicaciones a la Materia Condensada, Universidad TecnolÃşgica Nacional Facultad Regional San Rafael San Rafael 30 de Abril al 02 de Mayo de 2007.

33. *Modelos de relajaciÃşn en redes complejas de transporte*, Ana L. Pastore, Piontti, Cristian E. La Rocca, Pablo Macri, Lidia A. Braunstein, Trefemac 2007,V Taller Regional de FÃŋsica EstadÃŋstica y Aplicaciones a la Materia Condensada, Universidad TecnolÃşgica Nacional Facultad Regional San Rafael San Rafael 30 de Abril al 02 de Mayo de 2007.

34. *Redes de contactos para modelos epidemiolÃşgicos* , C. Lagorio, M. Migueles, P. Macri, L. A. Braunstein, AFA, Septiembre de 2007.

35. *Redes de contactos para modelos epidemiolÂťgicos*. M. V. Migueles, C. Lagorio, L. A. Braunstein y P. A. Macri. Trefemac 2008, 6^0 Taller Regional de FÃŋsica EstadÃŋstica y Aplicaciones a la Materia Condensada Centro CÃŋvico de San Carlos de Bariloche, RÃŋo Negro, Argentina 5, 6 y 7 de Mayo de 2008.

36. *Modelo y ecuación analítica para un proceso de relajación de carga en redes complejas*. C. E. La Rocca, A. L. Pastore y Piontti, L. A. Braunstein, P. A. Macri. Trefemac 2008, 6^0 Taller Regional de FÃŋsica EstadÃŋstica y Aplicaciones a la Materia Condensada Centro CÃŋvico de San Carlos de Bariloche, RÃŋo Negro, Argentina 5, 6 y 7 de Mayo de 2008.

37. *Epidemias y percolación en redes sociales con enlaces heterogéneos*. C. Lagorio, L. A. Braunstein y E. López. Trefemac 2008, 6^0 Taller Regional de FÃŋsica EstadÃŋstica y Aplicaciones a la Materia Condensada Centro CÃŋvico de San Carlos de Bariloche, RÃŋo Negro, Argentina 5, 6 y 7 de Mayo de 2008.

38. *Usando una dinámica de relajación para disminuir la congestión en redes complejas.* A. L. Pastore y Piontti, C. E. La Rocca, Z. Toroczkai, L. A. Braunstein, P. A. Macri y E. López. Trefemac 2008,VI Taller Regional de FÃŋsica EstadÃŋstica y Aplicaciones a la Materia Condensada, Bariloche 2 al 5 de Mayo de 2008.

39. *Effects of epidemic threshold on spread epidemic disease* C.Lagorio, M. V. Migueles, L. A. Braunstein, P. A. Macri, E. LÃşpez MEDYFINOL 2008,XVI Conference on Nonequilibrium Statistical Mechanics & Nonlinear Physics, Punta del Este, Uruguay. 1-5 December, 2008.

40. *Creating real-social contact networks from statistically aggregated information* C. Lagorio, M. V. Migueles, P. A. Macri and L. A. Braunstein, LAAZ ASUNM Daze 2008, Department of Mathematics and Statistics University of New Mexico, Albuquerque, New Mexico, USA, February 29 - March 1, 2008.

41. *Estudio de la dinÃąmica de transporte de nutrientes del hongo Phanereochaete velutina*, Pastore y Piontti A. L., La Rocca C. E., Macri P. A., Braunstein L. A. 94 Reunion Nacional de Fisica - AFA- Rosario 15-19 de Septiembre de 2009.

42. *Effects of epidemic threshold on spread epidemic disease*, C. Lagorio, M. Migueles, L.A Braunstein, P. A. Macri, E. López, MEDYFINOL 2008, 01 al 05 de Diciembre de 2008, Punta del Este, Uruguay. .

43. *Creating real social networks from Census Data*, M.V Migueles, C. Lagorio, P. A Macri, L. A Braunstein, DYSES 2009, 14 al 18 de Abril de 2009, Pinamar, Argentina.

44. *Como reducir el impacto de una epidemia prohibiendo contactos en una red evolutiva*, Cecilia Lagorio , M. V. Migueles, Federico Vazquez, L.A. Braunstein, P. A. Macri, VIII Taller Regional de FÃŋsica EstadÃŋstica y Aplicaciones a la Materia Condensada, TREFEMAC 2010, 5 al 7 de Mayo de 2010, Mar del Plata, Argentina.

45. *Efectos de las correlaciones en la congestion en redes complejas*, A. L. Pastore y Piontti, P. A. Macri, L. A. Braunstein, VIII Taller Regional de FÃŋsica

EstadÃŋstica y Aplicaciones a la Materia Condensada,Mar del Plata, 5 a 7 de Mayo de 2010.

46. *Efecto de las correlaciones sobre la propagaciÃşn de enfermedades*, L. D. Valdez, L. A. Braunstein and P. A. Macri, VIII Taller Regional de FÃŋsica EstadÃŋstica y Aplicaciones a la Materia Condensada,Mar del Plata, 5 a 7 de Mayo de 2010.

47. *Modelo conservativo para procesos de sincronizaciÃşn en redes complejas*, C. E. La Rocca, L. A. Braunstein and P. A. Macri, VIII Taller Regional de FÃŋsica EstadÃŋstica y Aplicaciones a la Materia Condensada,Mar del Plata, 5 a 7 de Mayo de 2010.

48. *Jamming in Complex Networks with degree Correlations*, L. A. Braunstein, A. L. Pastore y Piontti, P. A. Macri y C. E. La Rocca, Horizons in Emergency & Scaling, Metalcaf Center, Boston University, Boston , USA, 18-19 March 2011.

49. *Quarantine generated phase transition in epidemic spreading*, M. Dickinson, C. Lagorio, F. Vazquez, L. A. Braunstein, M. V. Migueles, S. Havlin and H. E. Stanley, Horizons in Emergency & Scaling, Metalcaf Center, Boston University, Boston , USA, 18-19 March 2011.

50. *Quarantine generated phase transition in epidemic spreading*, M. Dickinson, C. Lagorio, F. Vazquez, L. A. Braunstein, M. V. Migueles, S. Havlin and H. E. Stanley, APS March Meeting 2011, Volume 56, Number 1, Dallas, Texas,USA, MondayÂŰFriday, March 21ÂŰ25, 2011.

51. *Effect of the degree correlations on the pressure congestion in complex networks.* Ana L. Pastore y Piontti, Lidia A.Braunstein and Pablo A. Macri, Horizons in Emergency & Scaling, Metalcaf Center, Boston University, Boston , USA, 18-19 March 2011.

52. *Efecto de los "escepticos" en las minoridades en un modelo de opiniones* L. A. Braunstein, Q. Li, S. Havlin y H. E. Stanley, Trefemac 2011, IX Taller Regional de FÃŋsica EstadÃŋstica y Aplicaciones a la Materia Condensada, Villa de Merlo, San Luis, 4 a 6 de Mayo de 2011.

53. *Efecto de las correlaciones de grado-grado sobre procesos en redes complejas*, L. D. Valdez, L. A. Braunstein y P. A. Macri, Trefemac 2011, IX Taller Regional de FÃŋsica EstadÃŋstica y Aplicaciones a la Materia Condensada, Villa de Merlo, San Luis, 4 a 6 de Mayo de 2011.

54. TransiciÃşn de fase generada por cuarentena en una propagaciÃşn de enfermedad Lagorio, C.; Dickison, M.; Vazquez, F.; Braunstein, L. A.; Macri, P. A.; Migueles, M. V.; Havlin, S.; Stanley, H. E. IX Taller Regional de FÃŋsica EstadÃŋstica y Aplicaciones a la Materia Condensada, Villa de Merlo, San Luis, 4 a 6 de Mayo de 2011.

XI. FOREIGN LANNGUAGES

- French and English.

XII. OTHERS

- Editor Plos One
- Referee of: Proceedings of the National Academy of Sciences (PNAS) since 2015, Nature since 2014, American Physical Society and Review of Modern Physics since 1996, Physica A since 2005, EuroPhysics Letter (epl) since 2009, PLoS ONE since 2012.