CURRICULUM VITÆ

Name: **Damián Horacio Zanette**
Birth place and date: **Buenos Aires, Argentina - June 24th, 1963**
Nationality: **Argentine**
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Present Position

- **Principal Researcher**, Carrera de Investigador del Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina (since 2006).
- **Full Professor**, Instituto Balseiro, Universidad Nacional de Cuyo, Argentina (since 2023).

University Titles

- *Licenciado* **in Physics**, Instituto Balseiro, Universidad Nacional de Cuyo, Argentina, Dec. 1986. Average grade: 8.19/10.
- **Ph. D. in Physics**, Instituto Balseiro, Universidad Nacional de Cuyo, Argentina, Nov. 1989. Grade: Maximum.

Research areas

Nonequilibrium statistical physics, collective dynamics and self-organization in complex systems, mathematical modeling of biological and socioeconomical systems, statistical properties of natural languages.

Research and Teaching Positions

In Argentina:

- Nov. 1998-Jun. 2023: **Associate Professor**, Instituto Balseiro, Bariloche, Argentina.
- Jun. 1999-Jun. 2006: **Indepedent Researcher**, Carrera de Investigador del Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina.

  Nov. 1998-2023: **Associate Professor**, Instituto Balseiro, Bariloche, Argentina.
- Jan. 1993-Jun. 1999: **Adjunct Researcher**, Carrera de Investigador del Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina.

  Aug. 1992-Nov. 1998: **Adjunct Professor**, Instituto Balseiro, Bariloche, Argentina.

- Mar. 1992-Feb. 1993: **Adjunct Professor**, Universidad Nacional del Comahue, Bariloche, Argentina.
- Dec. 1991-Jul. 1992: **Chief Teaching Assistant**, Instituto Balseiro, Bariloche, Argentina.
- Jan. 1989-Jan. 1990: **Chief Teaching Assistant**, Instituto Balseiro, Bariloche, Argentina.
- Sep. 1988-Jan. 1990: **Teaching Assistant**, Universidad Nacional del Comahue, Bariloche, Argentina.
- Apr. 1987-Jan. 1990: **Scholarship Fellow** of Consejo Nacional de Investigaciones Científicas y Técnológicas (CONICET), Argentina.
- Jan. 1987-Jan. 1989: **Teaching Assistant**, Instituto Balseiro, Bariloche, Argentina.

Abroad:

- Feb. 2003-Oct. 2003: **von Humboldt Fellow** at Fritz Haber Institute of Max Planck Society, Berlin, Germany.
- Mar. 2000-Apr. 2000: **Lecturer** at the ICTP Diploma Course, International Centre for Theoretical Physics, Trieste, Italy.
- Feb. 1996-Sep. 1997: **von Humboldt Fellow** at Fritz Haber Institute of Max Planck Society, Berlin, Germany.
- Feb. 1991-Oct. 1991: **Scholarship Fellow** of Consiglio Nazionale delle Ricerche, Italy.
- Aug. 1990-Oct. 1990: **Visiting Mathematician**, International Centre for Theoretical Physics, Trieste, Italy.
- Feb. 1990-Jul. 1990: **Visiting Professor**, Università di Roma "La Sapienza," in the frame of the Visiting Professor Programme of Consiglio Nazionale delle Ricerche, Italy.
- Since 1990: **Invited speaker/visitor**, Universities of Bari, Bologna, Camerino, Padova, Parma (Italy); Technical University, von Humboldt University (Berlin, Germany); University of Aarhus (Denmark).

Grants and Awards

In Argentina:

- May 2023: **Premio Konex, Diploma al Mérito en Ciencia y Tecnología**, Fundación Konex, Argentina.
- Dec. 2022: **Award to Best Teacher**, Instituto Balseiro, Argentina.
- Dec. 2015: **Award to Best Teacher**, Instituto Balseiro, Argentina.

- Dec. 2014: **Award to Best Teacher**, Instituto Balseiro, Argentina.
- Dec. 2012: **Award to Best Teacher**, Instituto Balseiro, Argentina.
- Dec. 2011: **Award to Best Teacher**, Instituto Balseiro, Argentina.
- Dec. 2004: **Award to Best Teacher**, Instituto Balseiro, Argentina.
- May 2003: **Prize Enrique Gaviola** 2002 in Physics, National Academy of Sciences, Argentina.
- Dec. 1995: **Award to Best Teacher**, Instituto Balseiro, Argentina.
- Apr. 1989-Jan. 1990: **Research Grant of Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)**, Argentina.
- Apr. 1987-Mar. 1989: **Research Grant of Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)**, Argentina.
- Aug. 1983-Dec. 1986: **Grant of Comisión Nacional de Energía Atómica**, to complete the M. Sc. degree in Physics at Instituto Balseiro, Bariloche, Argentina.

Abroad:

- 2012: **European Prize for Scientific Divulgation, Estudi General Ciutat de Alzira**, Spain.
- Feb.-Oct. 2003: **Research Grant of Alexander von Humboldt Stiftung**, Germany.
- Since Jan. 1999: **Associate Member of the International Centre for Theoretical Physics**, Trieste, Italy.
- Mar. 1996-Sep. 1997: **Research Grant of Alexander von Humboldt Stiftung**, Germany.
- Feb. 1991-Sep. 1991: **Grant of Consiglio Nazionale delle Ricerche**, Italy, for a working visit to Gruppo Nazionale per la Fisica Matematica, Florence.
- Jan. 1990-Jan. 1993: **Junior Associate Grant**, International Centre for Theoretical Physics, Trieste, Italy.

Teaching Experience

- 2017-2022: Associate Professor in **Statistical Mechanics**; Instituto Balseiro, Bariloche, Argentina.
- 2011-2015: Associate Professor in **Electromagnetism**; Instituto Balseiro, Bariloche, Argentina.
- 2006-2009: Associate Professor in **Classical Mechanics**; Instituto Balseiro, Bariloche, Argentina.

- 2004-2005: Associate Professor in **Dynamical Systems**; Instituto Balseiro, Bariloche, Argentina.
- 2002-2004: Associate Professor in **Electromagnetism**; Instituto Balseiro, Bariloche, Argentina.
- 2001: Associate Professor in **Nonlinear Dynamics**; Instituto Balseiro, Bariloche, Argentina.
- 2000: Lecturer in **Nonlinear Dynamics**; ICTP Diploma Course, International Centre for Theoretical Physics, Trieste, Italy. Associate Professor in *Topics of Fluid Physics*; Instituto Balseiro, Bariloche, Argentina.
- 1999: Associate Professor in **Electromagnetism**; Instituto Balseiro, Bariloche, Argentina.
- 1992-1998: Adjunct Professor in **Differential Equations**, **Probability and Statistics**, **Physics of Fluids**, **Statistical Mechanics**, and **Electromagnetism**; Instituto Balseiro, Bariloche, Argentina.
- 1992: Chief Teaching Assistant in **Electromagnetism**; Instituto Balseiro, Bariloche, Argentina. Adjunct Professor in **Physics A** and **Physics B** (M. Sc. in Biology); Universidad Nacional del Comahue, Bariloche, Argentina.
- 1990: Visiting Professor in **Complements in Mathematics**; Università di Roma "La Sapienza," Italy.
- 1988-1989: Chief Teaching Assistant in **Quantum Mechanics I** and **Dynamical Systems**; Instituto Balseiro, Bariloche, Argentina. Teaching Assistant in **Analytical Geometry**; Universidad Nacional del Comahue, Bariloche, Argentina.
- 1986-1988: Teaching Assistant in **Statistical Mechanics**, **Thermodynamics**, **Linear Algebra**, **Classical Mechanics**, and **Dynamical Systems**; Instituto Balseiro, Bariloche, Argentina.

Supervision of Degree and Doctoral Theses

- 2014-2021: Direction of doctoral thesis by **Octavio Cabrera**, **Passive radars: Theory and applications**, Instituto Balseiro, Argentina.
- 2010-2015: Direction of doctoral thesis by **Damián Hernández**, **Multiplayer games in complex networks**, Instituto Balseiro, Argentina.
- 2005-2010: Direction of doctoral thesis by **Gabriel Paissan**, **Learning processes in complex networks**, Instituto Balseiro, Argentina.
- Since 2005: Direction of master theses by **Santiago Gil**; **Jean Pierre Chauny**; **Fernando Arizmendi**; **Sebastián Arroyo**, in collaboration with Hernán Pastoriza; **Franco Mangussi** at Instituto Balseiro, Bariloche, Argentina.

- 1997-2001: Direction of doctoral thesis by **Luis Morelli**, **Synchronization of coupled extended systems**, presented at Instituto Balseiro, Bariloche, Argentina.
- Since 1992: Direction of 8 degree theses (**Sergio Hassan**; **Demian Reidel**, in collaboration with Enrique Miranda; **Damián Strier**, in collaboration with Horacio Wio; **Pablo Oliva**; **Hugo Ferrari**; **Diego Diaz**, in collaboration with Horacio Wio; **Alan Hampton**; **Jorge Blengino**, **Ignacio Gavier**, presented at Instituto Balseiro, Bariloche, Argentina).
- Since 1991: Advising and/or evaluation of the Doctoral theses by **Sebastián Bouzat**, **Alejandro Duarte**, **Alejandro Sanchez**, **Marcelo Kuperman**, **Guillermo Abramson**, **Pablo Alemany**, and **Jorge Sobehart**.

Other Academic Activities

- since 2017: **Coordinator** of Ph. D. Program in Physics, Instituto Balseiro, Argentina.
- 2015-2017: **Member of Academic Committee** of M. Sc. Program in Physics, Instituto Balseiro, Argentina.
- 2005-2006, 2014-2015: **Member of Academic Council**, Instituto Balseiro, Argentina.
- 2001-2003: **Coordinator** of M. Sc. in Physics, Instituto Balseiro, Argentina.
- 1999-2001: **Member of Ad-hoc Commission** in the area of Exact and Natural Sciences of Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina.
- Jul.1998-Jul.1999: **Coordinator of proposal evaluation** in the area of Physical and Mathematical Sciences of Agencia Nacional de Promoción Científica y Tecnológica (ANPCyT), Argentina.

Refereeing and Peering Activities

- **Referee** for Physical Review E and Physical Review Letters, Physics Letters A, Physica A and D, Physics of Fluids A, Journal of Physical Chemistry, Advances in Complex Systems, European Physical Journal B, among others.
- Since Jul. 1998: **Proposal evaluation peer**, National Council for Science, Chile.
- Since Jun. 1998: **Proposal evaluation peer**, Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina.
- Since Feb. 1998: **Proposal evaluation peer**, Agencia Nacional de Promoción Científica y Tecnológica (ANPCyT), Argentina.

Publications

1. In international journals with refereeing:

1.1 D. H. Zanette, C. R. Garibotti, and R. O. Barrachina, **Power-law decreasing in solutions of the Boltzmann equation**, Phys. Lett. **120 A** (1987) 219-222.

1.2 D. H. Zanette, **Two-velocity gas diffusion with removal and regeneration processes**, Physica **148 A** (1988) 288-297.

1.3 D. H. Zanette and R. O. Barrachina, **Nonlinear particle diffusion in a time dependent host medium**, Phys. Fluids **31** (1988) 502-505.

1.4 D. H. Zanette and C. R. Garibotti, **Evaluation of the entropy for Maxwell molecules**, Physica **149 A** (1988) 638-647.

1.5 D. H. Zanette, R. O. Barrachina, and C. R. Garibotti, **Nonlinear effects in hot electron transport**, J. Appl. Phys. **64** (1988) 3756-3758.

1.6 D. H. Zanette, **Solitonic solutions for the two-velocity generalized Boltzmann equation**, Physica A **153** (1988) 612-618.

1.7 D. H. Zanette, **Evolution of the entropy for an anisotropic Maxwellian gas**, Phys. Lett. A **139** (1989) 39-41.

1.8 D. H. Zanette, **Space dependent solutions for the generalized Boltzmann equation**, Phys. Fluids A **2** (1990) 274-276.

1.9 D. H. Zanette, **A BBGKY hierarchy for the extended kinetic theory**, Physica A **162** (1990) 414-426.

1.10 D. H. Zanette, **Tjon effect for a gas diffusing in a background**, Phys. Lett. A **148** (1990) 37-40.

1.11 M. L. Martiarena, C. R. Garibotti, and D. H. Zanette, **Singularities in the non-isotropic Boltzmann equation**, Physica A **165** (1990) 361-369.

1.12 D. H. Zanette, **Spatial effects of removal and creation processes on the dynamics of gases**, Phys. Fluids A **2** (1990) 2227-2229.

1.13 D. H. Zanette, **Free expansion of a gas in a box: General solution**, Phys. Rev. A **44** (1991) 4945-4952.

1.14 D. H. Zanette, **Gas dynamics in a nonequilibrium background: an exact stationary solution**, Phys. Lett. A **163** (1992) 254-257.

1.15 D. H. Zanette, **Reducibility of a class of nonlinear integral kinetic equations**, J. Phys. A: Math. Gen. **25** (1992) 4167-4180.

1.16 B.D. Ganapol, G. Spiga, and D. H. Zanette, **An accurate evaluation of the distribution functions of nonlinear extended kinetic theory**, Math. Mod. Meth. Appl. Sci. **2** (1992) 223-237.

1.17 V. Boffi and D. H. Zanette, **Stationary extended kinetic theory for a gas of hard spheres**, Nuovo Cimento **14** (1992) 429-448.

1.18 R. Spigler and D. H. Zanette, **Reaction-diffusion models from the Fokker-Planck formulation of chemical processes**, IMA J. Appl. Math. **49** (1992) 217-229.

1.19 D. H. Zanette, **Multistate cellular automaton for reaction-diffusion**, Phys. Rev. A **46** (1992) 7573-7577.

1.20 H. S. Wio and D. H. Zanette, **Bimodality and transient trimodality for Brownian particles in shear flow: A path integral approach**, Phys. Rev. E **47** (1993) 384-387.

1.21 R. Spigler and D. H. Zanette, **Asymptotic analysis and reaction-diffusion approximation for BGK kinetic models of chemical processes in multispecies gas mixtures**, J. Appl. Math. Phys. (ZAMP) **44** (1993) 812-827.

1.22 D. H. Zanette, **Linear and nonlinear diffusion and reaction-diffusion equations from discrete-velocity kinetic models**, J. Phys. A: Math. Gen. **26** (1993) 5339-5349.

1.23 F. Bagnoli, R. Rechtman y D. H. Zanette, **Termodinámica de modelos de gases en redes con velocidades discretas**, Rev. Mex. Fís. **39** (1993) 763-774.

1.24 P. A. Alemany and D. H. Zanette, **Fractal random walks from a variational formalism for Tsallis entropies**, Phys. Rev. E **49** (1994) R956-R958.

1.25 R. Spigler and D. H. Zanette, **A BGK model for chemical processes: The reaction-diffusion approximation**, Math. Mod. Meth. Appl. Sci. **4** (1994) 35-47.

1.26 D. H. Zanette, **Quantum spectrum of a chain of oscillators**, Am. J. Phys. **62** (1994) 404-407.

1.27 D. H. Zanette, **Intermittency inhibited by transport: An exactly solvable model**, Phys. Rev. E **49** (1994) 2779-2783.

1.28 S. A. Hassan, M. N. Kuperman H. S. Wio, and D. H. Zanette, **Evolution of reaction-diffusion patterns in infinite and bounded domains**, Physica A **206** (1994) 380-400.

1.29 S. A. Hassan, D. H. Zanette, and H. S. Wio, **Stationary states in a reaction-diffusion system with albedo boundary conditions**, J. Phys. A: Math. Gen. **27** (1994) 5129-5134.

1.30 D. H. Zanette, **Interplay of reaction and transport in a perfect fluid**, Phys. Rev. E **50** (1994) 1171-1183.

1.31 D. H. Zanette and A. S. Mikhailov, **Intermittency in a stochastic birth-death model**, Phys. Rev. E **50** (1994) 1638-1641.

1.32 P. A. Alemany, D. H. Zanette, and H. S. Wio, **Time-dependent reactivity for diffusion controlled annihilation and coagulation in two dimensions**, Phys. Rev. E **50** (1994) 3646-3655.

1.33 S. A. Hassan and D. H. Zanette, **Stationary structures in a three dimensional reaction-diffusion system**, Physica A **214** (1995) 435-444.

1.34 D. H. Zanette, **Annihilation of two diffusive species on an anisotropic substrate**, Physica A **215** (1995) 361-369.

1.35 G. Izús, R. Deza, O. Ramírez, H. S. Wio, D. H. Zanette, and C. Borzi, **On the global stability of stationary patterns in bistable reaction-diffusion systems**, Phys. Rev. E **52** (1995) 129-136.

1.36 P. Oliva and D. H. Zanette, **Reaction kinetics of annihilating particles with anomalous diffusion**, Phys. Rev. E **51** (1995) 6258-6260.

1.37 D. H. Zanette and P. A. Alemany, **Thermodynamics of anomalous diffusion**, Phys. Rev. Lett. **75** (1995) 366-369.

1.38 D. H. Zanette, **Nonequilibrium structures in reacting fluids subject to external forces**, Phys. Rev. E **52** (1995) 1213-1215.

1.39 D. H. Zanette, **Nucleation structures in reaction-diffusion-convection systems**, Phys. Rev. E **52** (1995) 1726-1733.

1.40 P. A. Alemany and D. H. Zanette, **Effect of an initial fractal distribution of particles in coagulation and annihilation reaction-diffusion systems**, Chaos Soliton. Fract. **6** (1995) 11-16.

1.41 A. S. Mikhailov and D. H. Zanette, **Autocatalytic reaction-diffusion model for intermittency in turbulence**, Chaos Soliton Fract. **6** (1995) 367-372.

1.42 D. H. Zanette, **Generalized Kolmogorov entropy in the dynamics of multifractal generation**, Physica A **223** (1996) 87-98.

1.43 P. P. Oliva, D. H. Zanette, and P. A. Alemany, **Analytical approach to coagulation and annihilation of particles with anomalous diffusion**, Phys. Rev. E **53** (1996) 228-234.

1.44 D. H. Zanette, H. S. Wio, and R. Deza, **Nonequilibrium potential for a reaction-diffusion model: Critical behavior and decay of extended states**, Phys. Rev. E **53** (1996) 353-358.

1.45 A. A. Duarte, D. E. Strier, and D. H. Zanette, **The rise of a liquid in a capillary tube revisited: A hydrodynamical approach**, Am. J. Phys. **64** (1996) 413-418.

1.46 D. E. Strier, D. H. Zanette, and H. S. Wio, **Wave fronts in a bistable reaction-diffusion system with density-dependent diffusivity**, Physica A **226** (1996) 310-323.

1.47 P. P. Oliva and D. H. Zanette, **One-species bimolecular reaction kinetics enhanced by anomalous diffusion**, Phys. Rev. E **54** (1996) 1366-1368.

1.48 H. Ferrari and D. H. Zanette, **Thermal activation in reaction-diffusion models: A two-component bistable system**, Physica A **233** (1996) 407-418.

1.49 D. H. Zanette and P. A. Alemany, **Zanette and Alemany Reply** (to **Comment on "Thermodynamics of anomalous diffusion"** by M.O. Cáceres and C.E. Budde), Phys. Rev. Lett. **77** (1996) 2590.

1.50 D. H. Zanette, **Wave fronts in bistable reactions with anomalous Lévy-flight diffusion**, Phys. Rev. E **55** (1997) 1181-1184.

1.51 D. H. Zanette, **Distribution of persistent sites in diffusing systems**, Phys. Rev. E **55** (1997) 2462-2464.

1.52 D. H. Zanette, **Dynamics of globally coupled bistable elements**, Phys. Rev. E **55** (1997) 5315-5320.

1.53 D. H. Zanette, **Persistence in Lévy-flight anomalous diffusion**, Phys. Rev. E **55** (1997) 6632-6635.

1.54 D. H. Zanette and S. C. Manrubia, **Role of intermittency in urban development: A model of large-scale city formation**, Phys. Rev. Lett. **79** (1997) 523-526. Featured in Physics World, Oct. 1997, pg. 22.

1.55 F. Castelpoggi, H. S. Wio, and D. H. Zanette, **Critical slowing down of spatially nonhomogeneous patterns in a reaction-diffusion model**, Int. J. Mod. Phys. B **11** (1997) 1717-1730.

1.56 E.N. Miranda, D. H. Zanette, and D. Reidel, **Statistical properties of randomly connected neural networks**, Physica A **241** (1997) 481-492.

1.57 D. H. Zanette and A. Mikhailov, **Complex behaviour of globally coupled Hamiltonian systems**, Phys. Lett. A **235** (1997) 135-138.

1.58 D. H. Zanette, **Recurrence and ergodicity breaking in a Hamiltonian toy model**, J. Phys. A **30** (1997) L785-L790.

1.59 D. H. Zanette and A. S. Mikhailov, **Condensation in globally coupled populations of chaotic dynamical systems**, Phys. Rev. E **57** (1998) 276-281.

1.60 G. Abramson and D. H. Zanette, **Statistics of extinction and survival in Lotka-Volterra systems**, Phys. Rev. E **57** (1998) 4572-4577.

1.61 D. H. Zanette and S. C. Manrubia, **Zanette and Manrubia Reply** (to **Comment on "Role of intermittency in urban development: A model of large-scale city formation"** by M. Marsili, S. Maslov and Y.-Ch. Zhang), Phys. Rev. Lett. **80** (1998) 4831.

1.62 D. H. Zanette, **Macroscopic current in fractional anomalous diffusion**, Physica A **252** (1998) 159-164.

1.63 L.G. Morelli and D. H. Zanette, **Synchronization of stochastically coupled cellular automata**, Phys. Rev. E **58** (1998) R8-11.

1.64 S. C. Manrubia and D. H. Zanette, **Intermittency model for urban development**, Phys. Rev. E **58** (1998) 295-302.

1.65 D. H. Zanette and A. S. Mikhailov, **Mutual synchronization in ensembles of globally coupled neural networks**, Phys. Rev. E **58** (1998) 872-875.

1.66 D.E. Strier and D. H. Zanette, **Self-similarity in a model of genetic microevolution**, Physica A **257** (1998) 530-535.

1.67 G. Abramson and D. H. Zanette, **Globally coupled maps with asynchronous updating**, Phys. Rev. E **58** (1998) 4454-4460.

1.68 P. Stange, D. H. Zanette, A. Mikhailov, and B. Hess, **Self-organizing molecular networks**, Biophys. Chem. **72** (1998) 73-85; reprinted in Biophys. Chem. **79** (1999) 233-247.

1.69 D. H. Zanette, **Dynamics of chaotic maps with global inhomogeneous coupling**, Europhys. Lett. **45** (1999) 424-430.

1.70 B. Derrida, S. C. Manrubia, and D. H. Zanette, **Statistical properties of genealogical trees**, Phys. Rev. Lett. **82** (1999) 1987-1990. Featured in Physics World, Apr. 1999, pg. 5, in Physics News Update #428 (American Institute of Physics), www.aip.org/physnews/update, May 14th 1999, and in The Sciences, September/October 1999, pg. 9.

1.71 S. C. Manrubia, D. H. Zanette, and R.V. Solé, **Transient dynamics and scaling phenomena in urban growth**, Fractals **7** (1999) 1-8.

1.72 S. C. Manrubia and D. H. Zanette, **Stochastic multiplicative processes with reset events**, Phys. Rev. E **59** (1999) 4945-4948.

1.73 D. H. Zanette, **Statistical-thermodynamical foundations of anomalous diffusion**, Braz. J. Phys. **29** (1999) 108-124. Invited review.

1.74 A. Hampton and D. H. Zanette, **Measure synchronization in coupled Hamiltonian systems**, Phys. Rev. Lett. **83** (1999) 2179-2182.

1.75 A. S. Mikhailov and D. H. Zanette, **Noise-induced breakdown of coherent collective motion in swarms**, Phys. Rev. E **60** (1999) 4571-4575.

1.76 G. Drazer and D. H. Zanette, **Experimental evidence of power-law trapping-time distributions in porous media**, Phys. Rev. E **60** (1999) 5858-5864.

1.77 B. Derrida, S. C. Manrubia, and D. H. Zanette, **On the genealogy of a population of biparental individuals**, J. Theor. Biol. **203** (2000) 303-315.

1.78 B. Derrida, S. C. Manrubia, and D. H. Zanette, **Distribution of repetitions of ancestors in genealogical trees**, Physica A **281** (2000) 1-16.

1.79 G. Drazer, M. Rosen, and D. H. Zanette, **Anomalous transport in activated carbon porous samples: Power-law trapping-time distributions**, Physica A **283** (2000) 181-186.

1.80 D. H. Zanette, **Globally coupled systems with prescribed synchronized dynamics**, Eur. Phys. J. B **16** (2000) 537-541.

1.81 D. H. Zanette, **Propagating structures in globally coupled systems with time delays**, Phys. Rev. E **62** (2000) 3167-3172.

1.82 I. Samengo and D. H. Zanette, **Competing neural networks: Finding a strategy for the game of matching pennies**, Phys. Rev. E **62** (2000) 4049-4056.

1.83 D. H. Zanette and A. S. Mikhailov, **Dynamical clustering in large populations of Rössler oscillators under the action of noise**, Phys. Rev. E **62** (2000) R7571-7574.

1.84 L. G. Morelli and D. H. Zanette, **Synchronization of Kauffman networks**, Phys. Rev. E **63** (2001) 036204, 10 pages.

1.85 D. H. Zanette, **Complex spatial organization in a simple model of resource allocation**, Eur. Phys. J. B **19** (2001) 623-628.

1.86 D. H. Zanette and S. C. Manrubia, **Vertical transmission of culture and the distribution of family names**, Physica A **295** (2001) 1-8.

1.87 D. H. Zanette, **Self-similarity in the taxonomic classification of human languages**, Adv. Complex Systems **4** (2001) 281-286.

1.88 L. G. Moyano, G. Abramson, and D. H. Zanette, **Synchronization learning of coupled chaotic maps**, Eur. Phys. J. B **22** (2001) 223-228.

1.89 C. Masoller and D. H. Zanette, **Anticipated synchronization in coupled chaotic maps with delays**, Physica A **300** (2001) 359-366.

1.90 D. H. Zanette, **Critical behavior of propagation on small-world networks**, Phys. Rev. E **64** (2001) 050901(R), 4 pages.

1.91 D. H. Zanette, **Dynamics of rumor propagation on small-world networks**, Phys. Rev. E **65** (2002) 041908, 9 pages. Also appeared in the Virtual Journal of Biological Physics Research, www.vjbio.org, April 1st 2002. Featured in Physics Tips Sheet #7 (American Institute of Physics), www.aps.org/media/tips, April 3rd 2002.

1.92 M. A. Montemurro and D. H. Zanette, **Entropic analysis of the role of words in literary texts**, Adv. Complex Systems **5** (2002) 7-17. Featured in Nature Science Update, www.nature.com/nsu, September 21st 2001, and in Tesi On Line (Il Corriere della Sera), tesionline.corriere.it/news, September 27th 2001.

1.93 M. N. Kuperman and D. H. Zanette, **Stochastic resonance in a model of opinion formation on small world networks**, Eur. Phys. J. B **26** (2002) 387-391.

1.94 D. H. Zanette and M. N. Kuperman, **Effects of immunization on small-world epidemics**, Physica A 309 (2002) 445-452.

1.95 S. C. Manrubia and D. H. Zanette, **At the boundary between biological and cultural evolution: The origin of surname distributions**, J. Theor. Biol. **216** (2002) 461-477. Featured in New Scientist Magazine, vol. 173, issue 2335, March 23rd, 2002, pg. 19.

1.96 M. A. Montemurro and D. H. Zanette, **New perspectives on Zipf's law in linguistics: From single texts to large corpora**, Glottometrics **4** (2002) 86-98. Invited review.

1.97 D. H. Zanette and L. G. Morelli, **Synchronization of coupled extended dynamical systems: A short review**, Int. J. Bifurcations and Chaos **13** (2003) 781-796. Invited review.

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2. Books:

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3. In contributed books:

3.1 C. R. Garibotti, D. H. Zanette, and M. L. Martiarena, **Electron emission at small angles in H+,He collisions** in *High Energy Ion-Atom Collisons*, Proceedings of the Third Workshop on High Energy Ion Atom Collision Processes, Debrecen, Hungary, 1987, D. Berényi and G. Hoch, eds. (Springer-Verlag, Berlin, 1988).

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3.7 D. H. Zanette, **Models of social processes on small-world networks** in *Modern Challenges in Statitical Mechanics: Patterns, Noise, and the Interplay of Nonlinearity and Complexity*, V. M. Kenkre and K. Lindenberg, eds. (American Institute of Physics, Melville, 2003), 187-203.

3.8 D. H. Zanette, **Multiplicative processes and city sizes** in *The Dynamics of Complex Urban Systems. An Interdisciplinary Approach*, S. Albeverio, D. Andrey, P. Giordano, and A. Vancheri, eds. (Springer, Berlin, 2007).

3.9 D. H. Zanette and S. C. Manrubia, **Multiplicative processes in social systems** in *Complex Population Dynamics. Nonlinear Modeling in Ecology, Epidemiology and Genetics*, B. Blasius, J. Kurths, and L. Stone, eds. (World Scientific, Singapore, 2007).

3.10 A. M. Montemurro and D. H. Zanette, **Complexity and universality in the long-range order of words** in *Creativity and Universality in Language*, M. Degli Esposti, E. Altmann, and F. Pachet, eds. (Springer, Berlin, 2016).

International Conferences: Organization and Invited Talks

1 Symposium on Synchronization of Chaotic Systems, Trieste, Italy. July 5-8, 2000. Invited speaker.

2 Fractal Aspects of Complex Systems, Maceió, Brazil. October 16-20, 2000. Invited speaker.

3 Second International Workshop on Dynamics of Socioeconomical Systems, La Plata, Argentina. August 7-10, 2001. Member of organizing and program committee. Speaker.

4 Pan American Advanced Studies Institute, Bariloche, Argentina. June 2-15, 2002. Invited speaker.

5 International Workshop on Euro Diffusion, Cercedilla, Spain. April 28-30, 2003. Invited speaker.

6 Synchronization and Complex Dynamics in Networks with Applications in Ecology, Potsdam, Germany. July 17-19, 2003. Invited speaker.

7 The Dynamics of Complex Urban Systems: An Interdisciplinary Approach, Ascona, Switzerland. November 4-6, 2004. Invited speaker.

8 First Latin American Conference on Statistical Physics and Interdisciplinary Applications, La Habana, Cuba. March 10-12, 2005. Invited speaker.

9 IX Latin American Workshop on Nonlinear Physics (LAWNP05), Bariloche, Argentina. October 23-28, 2005. Local organizer.

10 **Dynamics on Complex Networks and Applications (DYONET06)**, Dresden, Germany. February 6-March 3, 2006. Invited speaker.

11 **International School on Complexity: Course on Statistical Physics of Social Dynamics**, Erice, Italy. July 14-19, 2007. Invited speaker.

12 **6th International Conference on Biological Physics**, Montevideo, Uruguay. August 27-31, 2007. Invited Speaker.

13 **MEDYFINOL 2008**, Punta del Este, Uruguay. December 1-5, 2008. Invited speaker.

14 **Emergence and Design of Robustness**, Palma de Mallorca, Spain. September 21-25, 2010. Invited Speaker.

15 **Advanced Computational and Experimental Techniques in Nonlinear Dynamics**, Cuzco, Perú. May 13-17, 2013. Invited speaker.

16 **LAWNP 2015**, Cartagena, Colombia. September 21-25, 2015. Invited speaker.

17 **Workshop on Science, Art, and Cognition**, Cuernavaca, México. December 11-15, 2017. Invited speaker.

18 **Analysis and Modeling of Complex Oscillatory Systems**, Barcelona, España. March 19-23, 2018. Invited keynote speaker.

19 **International Conference on Statistical Physics, StatPhys 27**, Buenos Aires, Argentina. July 8-12, 2019. Invited speaker.

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Bariloche, July 2023