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UNIVERSITY OF MODENA AND REGGIO EMILIA
&
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Personal Informations

Citizenship: Italian
Date of Birth: 05/12/1981
Sex: Male
Civil Status: Engaged

Main Positions

Since January 2015: Research Fellow (*"Assegnista di Ricerca"*) at the Department of Economics of the University of Modena and Reggio Emilia (Italy).

Since January 2015: Part-time *Research Fellow* at the Center for Social Sciences of the Hungarian Academy of Sciences (MTA TK), Budapest.

Other Positions

Since November 2015: Member of the Council of the REBEL: Reggio Emilia Behavioural and Experimental Laboratory.

Since August 2015: Associate Member of the C.A.P.P. (Centro di Analisi delle Politiche Pubbliche - Center for the Analysis of Public Policies), University of Modena and Reggio Emilia.

Since October 2010: *Research Affiliate* of the Namur Center for Complex Systems

Former Positions

November 2012 - December 2014: *Research Fellow* at the Center for Social Sciences of the Hungarian Academy of Sciences (MTA TK), Budapest.

April 2013 - December 2014: *Visiting Professor* at ESCP-Europe Business School, Paris Campus.

September 2009 - June 2012, *Ph.D. Student*, University of Namur, Department of Economics and Centre de recherche en économie du développement (CRED).

September 2007 - September 2009, *Researcher* University of Namur, Department of mathematics.

September 2005 - September 2007, *Research Assistant*, University of Modena and Reggio Emilia, Department of Social, Cognitive and Quantitative sciences.

Graduate Studies

Ph.D. in Economics from the University of Namur (Belgium), Member of the Economics School of Louvain - September 2009 to June 2012

Thesis title: Essays in information aggregation and political economics

Ph.D. thesis committee: Prof. Gani Aldashev (supervisor, Namur), Prof. Timoteo Carletti (co-supervisor, Namur), Prof. Marco Li Calzi (University of Venice, Italy), Prof. Enrico Diecidue (INSEAD-Paris, France), Prof. Micael Castanheira (ULB-Ecaries, Belgium), Prof. Guillaume Deffuant (Irstea-Aubiere, France).

References:

Professor Gani Aldashev

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Professor Karoly Takacs

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Undergraduate Studies

Master Degree in Economics and Management of Networks and Innovation (2003/2005)

Grade: 110/110 with Laude

Faculty of Communication and Information Sciences - University of Modena and Reggio Emilia (Italy)

Title of the Thesis: Creation of an Industrial District and of Innovation from the point of view of complexity theory. (*Supervisor:* Prof. David Avra Lane)

Bachelor Degree in Economics, Networks and Innovation (2000/2003)

Grade: 100/110

Faculty of Communication and Information Sciences - University of Modena and Reggio Emilia (Italy)

Title of the Thesis: Open Source Intelligence - Report on the stage at ExpertWeb S.r.l

Research Interests

- Social Interactions and Network Theory
- Opinion Dynamics and Applications to Simulated Financial Markets
- Micro-economics (Industrial Organization)

Linguistic skills

- Italian (Mother tongue)
- English
- French
- Basic Spanish

Professional Activities

Invited Seminars: University of Namur, Department of Mathematics (September 2009); University of Namur, Cred Workshop (November 2011); Louvain School of Economics, Doctoral Workshop (January 2012); University of Verona, Department of Economics (December 2012); Hungarian Academy of Sciences, "Lendület" Recens Seminars (January 2013); Hungarian Academy of Sciences, Center for Social Sciences (February 2013); University of Venice, Department of Economics (February 2013); Central European University, Center for Network Sciences (January 2014); Corvinus University,

Game Theory Seminars (April 2014); University of Cergy-Pontoise, THEMA (May 2014); University of Modena and Reggio Emilia, Department of Economics (February 2015), Hungarian Academy of Sciences, Workshop on New experimental methods (December 2015).

Contributed talks: International Workshop "Socio-Physics: Status and Perspectives" (Turin, Italy. May 2008); Workshop on Artificial Life and Evolutive Computation (Venice, Italy. September 2008); European Conference on Complex Systems (Warwick, UK. September 2009), Conference of the Italian Association for Artificial Intelligence (Reggio Emilia, Italy. December 2009), Dynamical Models in Economics and Finance Conference (Urbino, Italy. September 2010), European Conference on Complex Systems (Bruxelles. Belgium. September 2012); 8th Conference of the European Social Simulation Association (Salzburg, Austria. September 2012); XXXIII Sunbelt Social Networks Conference of the International Network for Social Network Analysis (Hamburg, Germany. May 2013); ECORE Summer School 2013 (Leuven, Belgium. May 2013), Network and Externalities Workshop (Budapest, Hungary. June 2013); International Conference on Interactions in Complex Systems (Orleans, France. June 2013); Workshop on Artificial Life and Evolutive Computation (Milan, Italy. July 2013); European Conference on Complex Systems (Barcelona, September 2013); Annual Conference of the European Association for Evolutionary Political Economy 2013 (Paris, November 2013); Third International Symposium in Computational Economics and Finance (Paris, France. April 2014); European Conference on Modelling and Simulations (Brescia, Italy. May 2014); 63rd Annual Meeting of the French Economic Association (Lyon, France. June 2014); 10th Conference of the European Social Simulation Association (Barcelona, Spain. September 2014); Conference of the Association of Southern European Economic Theorists (Aix-en-Provence, France. November 2014); Networks in Economics and Finance Workshop (Louvain-la-Neuve, Belgium, December 2014); Bomopav 2015 (Modena, Italy, March 2015); Workshop on Heterogeneous Interacting Agents - WEHIA 2015 (Sophia-Antipolis, France, May 2015); 2nd International Workshop on Financial Markets and Nonlinear Dynamics (Paris, France, June 2015); International Conference on Computational Social Science (Helsinki, Finland, June 2015), Annual Conference of the European Association for Evolutionary Political Economy 2015 (Genova, Italy, November 2013).

Referee Service: *Computational Economics; Accounting Economics and Law: A Convivium; International Game Theory Review; Journal of Artificial Societies and Social Simulations; International Journal of Modern Physics C, Economic Modelling, Macroeconomic Dynamics.*

Conferences Organization: Member of the program committee of *European Social Simulation Association* (ESSA) Conference 2014.

Member of the program committee of *European Conference on Modelling and Simulations (ECMS) 2014 - track "Finance, Economics and Social Sciences"* (position held also for the **2015** and the **2016** conferences).

Member of the program committee of *European Conference on Complex systems (ECCS) 2012 - track "Social Systems, Economics and Finance"*.

Member of the scientific committee of *Cultural and opinion dynamics: Modeling, Experiments and Challenges for the future*, Satellite Meeting of ECCS 2013.

Teaching:

Teacher of the course "**Social Network Analysis for Economists**" held at University of Modena and Reggio Emilia in Winter 2006.

Substitute teacher of the course "**Economics and Politics**" (Master Course) held at University of Namur in Spring 2012

Substitute teacher of the course "**Probability and Statistics**" (Bachelor course), held at the University of Modena and Reggio Emilia, Spring 2006.

Other Scientific/Administrative Tasks and Qualifications:

Since February 2014: French qualification to the functions of Maître de conférences (Associate Professor) in Economic Sciences (Section 05).

Since September 2015: Organizer of the Economics Seminar series of the Department of Economics "Marco Biagi".

October 2015: *Excellence Laboratory on Financial Regulation (Labex-ReFi)*: Member of the committee for the selection of new post-docs members for the research Axe: "Financial System Dynamics and Regulation".

October 2012-December 2015: *RECENS-Hungarian Academy of Sciences*: Member of the committee for the selection of new post-docs members of the research group, organization of the reading group, co-organization of the seminar series of the research unit, grants drafting.

July 2005-August 2007: Scientific and administrative responsibility for the partner Mediacontech S.p.a. for its participation in the European Research Project CETRA (Complexity Education For Trainers).

October 2005-July 2006: Organizational and administrative support in the European Project ISCOM (Information Society as a Complex System), with responsibility for the redaction of financial documents, final reports and for the organization of Meetings.

Scholarships and Prizes

Application for ERC-Starting Grant 2016: Co-Principal investigator for the project EXIST (EXploiting Information flows among dynamical structures to forecast critical System Transitions). Project graded B.

OTKA Project Grant (Hungarian Research fund): Co-Applicant for the Project "Gossip, Reputation, and Cooperation: Building Blocks of Social Order", financed

with 28 Million Hungarian Fiorints (~ 100.000 Euros) for the period 2015-2018 [An extended and revised version of this project won a **ERC-Consolidator Grant 2015** grant of 1.78 Million Euros, both projects are lead by Karoly Takacs].

International Mobility Fund Grant from the Hungarian Academy of Sciences (Hungary), 277.500 Hungarian Fiorints (November 2013).

International Publication Fund Grant from the Hungarian Academy of Sciences (Hungary), 110.000 Hungarian Fiorints (September 2013).

Grant from ESCP-Europe (Paris) for the scientific project: *Effects of localized social and cognitive interactions under alternative financial regulation regimes on Financial Market Prices Dynamics*, 7000 Euro for 2013, renewed with 5000 Euros for 2014.

Best student paper at the European Social Simulation Association Conference 2012 (Salzburg, Austria) for the paper "Behavioral Biases and Informational Inefficiency in an Agent-Based Financial Market".

PAI (Pôles d'attraction interuniversitaire) scholarship from september 2009 to june 2012.

FSR (Fonds spécial de recherche - Special research funds) scholarship from september 2007 to september 2009.

Ongoing funds applications

- Responsible of 1 Work Package for the *ERC-Consolidator Grant 2016* of Prof. Marco Mamei, Working Title "Social Capital Anaysis through Experiments and Big Data" (~ 1.9 Mln Euros).
- PRIN 2015 - "Social Infrastructure, Social Capital and Natural Disasters" - Co-Applicant (~ 1 Mln Euros).
- H2020-FET Project "EnSIR - Enhancing social infrastructures resilience to cope with natural disasters: in theory and practice", Co-applicant.
- FAR 2015 (Competitive Grant from University of Modena and Reggio Emilia): 90.000 Euros, Co-applicant.

Journal Publications

- Biondi Y., Righi S. (2015), **What does the financial market pricing do? A simulation analysis with a view to systemic volatility, exuberance and vagary**, *Journal of Economic Interactions and Coordination*, In Press, DOI: 10.1007/s11403-015-0159-3.
- Righi S., Takacs, K. (2014), **Emotional strategies as catalysts for cooperation in signed networks**, in *Advances in Complex Systems*, volume 17, issue 2, pp. 1450011-1-1450011-23.
- Aldashev G., Carletti T., Righi, S. (2011), **Follies subdued: Informational Efficiency under Adaptive Expectations and Confirmatory Bias**, in *Journal of Economic Behavior and Organization*, volume 80, pp. 110-121.
- Carletti, T., Fanelli D., Righi S., (2011) **Emerging structures in social networks guided by opinions' exchanges**, in *Advances in Complex Systems*, volume 14, issue 1, pp. 13-30.
- Carletti, T., Righi S. (2010) **Weighted Fractal Networks**, *Physica A*, volume 389, pp. 2134-2142.

Working Papers and Article in Publication

- Carroni E., Righi S. (2015), **Pricing in Social Networks under Limited Information**, Working Paper 15/03, University of Namur [Under review - *American Economic Review*]
- Biondi Y., Righi S. (2015), **Much ado about making money: The impact of disclosure, News and Rumors over the Formation of Security Market Prices over Time**, Department of Economics "Marco Biagi" Working Paper 2015/75, University of Modena and Reggio Emilia (2281-440X). [Submitted to *Journal of Economic Interactions and Coordination*]
- Biondi Y., Righi S. (2015), **Inequality, Mobility and the Financial Accumulation Process: A Computational Economic Analysis**, Department of Economics "Marco Biagi" Working Paper 2015/58, University of Modena and Reggio Emilia (2281-440X). [Under review - *Macroeconomic Dynamics*]
- Righi S. (2015), **Campaign Spending and Rents in a Probabilistic Voting Model**. Department of Economics "Marco Biagi" Working Paper 2015/73, University of Modena and Reggio Emilia (2281-440X). [Status: Preparation for Submission to *Italian Economic Journal*].
- Aldashev G., Carletti T., Righi S. (2010), **Adaptive expectations, confirmatory bias, and informational efficiency**, *Naxys technical Report*.

Chapter in Books and Book Reviews

- Righi S., Takacs, K. (2015), **Parallel versus Sequential Update and the Evolution of Cooperation with the Assistance of Emotional Strategies**, Accepted for publication in *Interactions in Complex Systems*, publisher: *Cambridge Scholars Publishing*.
- Righi S. (2013), Review of the Book **Decoding Complexity: Uncovering Patterns in Economic Networks** by *James Grattfelder*, in *Journal of Artificial Societies and Social Simulations*, Vol 16 (4), November 2013.
- Dall E., Righi S. (2008) **Evaluating Project Communications with social network Analysis**, in Hochgerner & Cornejova, “*Communication in International R&D Projects*”, (2008), Barrister & Principal, Brno (CZ).
- Righi S. (2007), **Complexity and Innovation**, in Marco Villani et al., (2007) “*Educating Managers in Complexity*”, Aracne Editrice, Roma.
- Righi S. (2006), **Creazione di un Distretto industriale e di innovazione nell’ottica della complessità**, Master thesis, Department of Social, Cognitive and Quantitative Sciences, University of Modena and Reggio Emilia.

Conference Proceedings

- Righi S., Takacs K. (2014), **Triadic Balance and Closure as Drivers of the Evolution of Cooperation**, *Advances in Computational Social Science and Social Simulation: Proceedings of the European Social Simulations Association (ESSA) Conference 2014*, <http://ddd.uab.cat/record/125597>.
- Righi S., Takacs K. (2014), **Degree Variance and Emotional Strategies Catalyze Cooperation in Dynamic Signed Networks**, *Proceedings of the 28th European Conference on Modelling and Simulations 2014* (ISBN: 978-0-9564944-8-1).
- Righi S., Takacs K. (2013), **Signed Networks, Triadic Interactions and the Evolution of Cooperation**, *Proceedings of Wivace 2013 - Italian Workshop of Artificial Life and Evolutive Computing*, DOI : 10.4204/EPTCS.130.17.
- Righi S., Carletti T. (2012), **Face-to-face discussions: networking or opinions exchange?**, *Proceedings of European Conference on Complex Systems 2012*, Springer, XVII (ISBN 978-3-319-00395-5).
- Righi S., Carletti T., Aldashev G. (2012), **Behavioral Biases and Informational Inefficiency in an Agent-Based Financial Market**, *Proceedings of European Social Simulation Association Conference 2012*, Salzburger Geographische Arbeiten, Band 48, S. 191-203, Salzburg 2012.

- Righi S., Carletti T., (2009), **How Opinion Dynamics Shapes Social Networks Topology**, *Proceedings of AI*IA Conference (Italian Association for artificial Intelligence)* (ISBN: 978-88-903581-1-1).
- Righi S., Carletti T. (2009), **The influence of social network topology in a opinion dynamics model**, *Proceeding of the European Conference on Complex systems 2009* (ISBN: 0-9554123-1-5).
- Carletti T., Righi S. (2008) **Shaping Opinions in a Social Network**, *Proceedings of Wivace 2008 - Italian Workshop of Artificial Life and Evolutive Computing* (ISBN: 978-981-4287-44-9).

Work in Progress

- **Competition in Social Networks under Limited Information** (with Elias Carroni, University of Namur). [*Status: Model solution*]
- **Triadic Mechanisms as Drivers for the Evolution of Cooperation** (with Karoly Takacs, Hungarian Academy of Sciences and Corvinus University). [*Status: Writing the Paper*]
- **Clan hierarchy and economic outcomes: Evidence from Kazakhstan** (with Gani Aldashev, University of Cergy-Pontoise) [*Status: Econometric Model being tested*]
- **Stochastic Weighted Fractal Networks** (with Timoteo Carletti) [*Status: Refinement of Results*]
- **Pro-social Behaviour and the 2012 earthquake** (with Francesca Pancotto, University of Modena and Reggio Emilia) [*Status: Ongoing Experimental Sessions*].
- **Who participates to experiments? Self-Selection into Field Experiments** (with Francesca Pancotto, University of Modena and Reggio Emilia) [*Status: Ongoing Experimental Sessions*].
- **The smarter the more kind: Strategic Thinking and Pro-social Behaviour** (with Francesca Pancotto, University of Modena and Reggio Emilia) [*Status: Ongoing Experimental Sessions*].
- **A Test of Anti-social punishment on the field** (with Francesca Pancotto, University of Modena and Reggio Emilia) [*Status: Ongoing Experimental Sessions*].
- **Text mining and network analysis to support improvements in legislative action. The case of the earthquake in Emilia-Romagna.** (With Pasquale Pavone and Margherita Russo, University of Modena and Reggio Emilia). [*Status: Network Analysis and drafting*].