

# Giovanni Luca Ciampaglia

919 E 10th St  
Bloomington, IN 47408

Phone: 1-812-855-7261  
Email: [glciampagl@gmail.com](mailto:glciampagl@gmail.com)  
URL: [www.glciampaglia.com](http://www.glciampaglia.com)

Gender: Male  
Born: July 12, 1980  
Nationality: Italian

## Current Affiliation

Center for Complex Networks and Systems Research  
School of Informatics and Computing  
Indiana University Bloomington

## Areas of specialization

Complex systems • Collective social phenomena • Complex networks

## Competences

Modeling • Big data • Simulation

## Education

- 2012     **Ph.D. in Informatics**  
*Università della Svizzera Italiana*, Lugano, Switzerland  
SUPERVISORS: Luca Gambardella (IDSIA), Alberto Vancheri (SUPSI), Paolo Giordano (TU Wien)
- 2006     **Laurea in Computer Science (MSc equivalent)**  
Sapienza University, Rome, Italy  
SUPERVISOR: Brunello Tirozzi
- 1999     **Maturità Scientifica**  
*Liceo Scientifico Isacco Newton*, Rome, Italy

## Research

- 2013-present     **Indiana University (Bloomington, USA)**  
Postdoctoral fellow  
Center for Complex Networks and Systems Research (Prof. Filippo Menczer)

Jul.-Aug. 2011 **Wikimedia Foundation, Inc. (San Francisco, USA)**  
Research intern  
Wikimedia Summer of Research, Community Department (Dr. Diederik Van Liere)

2010-2011 **Swiss Federal Institute of Technology (Zürich, Switzerland)**  
Research associate  
Chair of Sociology, in particular Modeling and Simulation (Prof. Dirk Helbing)

## Teaching

2015 **Indiana University Bloomington (USA)**  
Guest lecturer, School of Informatics and Computing  
*I690 Mathematical Modeling of Complex Systems: Introduction to Game Theory*

2013 **Indiana University Bloomington (USA)**  
Guest lecturer, School of Informatics and Computing  
*I690 Mathematical Modeling of Complex Systems: Agent-based models*

2010-2011 **Swiss Federal Institute of Technology (Zürich, Switzerland)**  
Lecturer, Program in Humanities, Social and Political Sciences  
*Lectures with Computer Exercises: Modelling and Simulating Social Systems with MATLAB*

2007-2008 **Università della Svizzera Italiana (Lugano, Switzerland)**  
Teaching assistant, Bachelor Program in Informatics  
*Artificial Intelligence and Knowledge Management* (Prof. Luca Maria Gambardella)  
*Computer Networking* (Prof. Antonio Carzaniga)

## Consulting

2012-2013 **Wikimedia Foundation, Inc. (San Francisco, USA)**  
Research Analyst  
Technology Department, (Dr. Dario Taraborelli)

## Publications & talks

### PEER-REVIEWED JOURNAL ARTICLES

Ciampaglia, Giovanni Luca, Alessandro Flammini, and Filippo Menczer. “The production of information in the attention economy”. In: *Nature Scientific Reports* (2015). *In press*.

Ciampaglia, Giovanni Luca, Sergi Lozano, and Dirk Helbing. “Power and Fairness in a Generalized Ultimatum Game”. In: *PLoS ONE* 9.6 (June 2014), e99039. DOI: [10.1371/journal.pone.0099039](https://doi.org/10.1371/journal.pone.0099039). URL: <http://dx.doi.org/10.1371/journal.pone.0099039>.

Ciampaglia, Giovanni Luca, Prashant Shiralkar, Luis Rocha, Johan Bollen, Filippo Menczer, and Alessandro Flammini. “Computation Fact-Checking from Knowledge Networks”. In: *ArXiv preprint arXiv:1501.03471* (2014).

Simas, Tiago, Giovanni Luca Ciampaglia, Olaf Sporns, and Rocha Luis M. “Distance backbone of complex networks”. In: (2014). *In preparation*.

Ciampaglia, Giovanni Luca. “A Framework for the Calibration of Social Simulation Models”. In: *Adv. Comp. Sys.* 16 (2012), p. 1350030. DOI: [10.1142/S0219525913500306](https://doi.org/10.1142/S0219525913500306).

## PEER-REVIEWED PROCEEDINGS CONTRIBUTIONS

- Ciampaglia, Giovanni Luca and D. Taraborelli. “MoodBar: increasing new user retention in Wikipedia through lightweight socialization”. In: *Proceedings of the 18th ACM conference on Computer supported cooperative work and social computing*. 2015.
- Fulper, R., G. L. Ciampaglia, E. Ferrara, Filippo Menczer, Y. Ahn, A. Flammini, B. Lewis, and K. Rowe. “Misogynistic Language on Twitter and Sexual Violence”. In: *Proc. ACM Web Science Workshop on Computational Approaches to Social Modeling (ChASM)*, 2014. Jan. 2015. URL: <http://dx.doi.org/10.6084/m9.figshare.1291081>.
- Ciampaglia, Giovanni Luca. “A Bounded Confidence Approach to Understand User Participation in Peer Production Systems”. In: *Third International Conference on Social Informatics (SocInfo’11)*. Vol. 6984. LNCS. Singapore: Springer Verlag, June 2011, pp. 269–282. DOI: [10.1007/978-3-642-24704-0\\_29](https://doi.org/10.1007/978-3-642-24704-0_29).
- Ciampaglia, Giovanni Luca and Alberto Vancheri. “Empirical Analysis of User Participation in Online Communities: the Case of Wikipedia”. In: *Intl Conf on Weblogs and Social Media*. 2010.
- Taraborelli, D. and G.L. Ciampaglia. “Beyond Notability. Collective Deliberation on Content Inclusion in Wikipedia”. In: *Self-Adaptive and Self-Organizing Systems Workshop (SASOW)*, 2010 *Fourth IEEE International Conference on*. Sept. 2010, pp. 122–125. DOI: [10.1109/SASOW.2010.26](https://doi.org/10.1109/SASOW.2010.26).
- Ciampaglia, Giovanni L. and B. Tirozzi. “Go East: a residential land use model for the periphery of Rome”. In: *Proc. of the Intl Cong. on Environmental Modelling and Software (iEMS)*. 2008.
- Rebiha, Rachid and Giovanni Luca Ciampaglia. “An Ant Colony Verification Algorithm”. In: *Proc. of Seventh Intl Conf. on Intelligent Systems Design and Applications (ISDA 2007)*. 2007, pp. 901–906. DOI: [10.1109/ISDA.2007.63](https://doi.org/10.1109/ISDA.2007.63).

## THESES & MISCELLANEA

- Ciampaglia, Giovanni Luca, Emilio Ferrara, and Alessandro Flammini. “Collective Behaviors and Networks”. In: *EPJ Data Science* (2014). Editorial. DOI: [10.1140/epjds/s13688-014-0037-6](https://doi.org/10.1140/epjds/s13688-014-0037-6).
- Ciampaglia, Giovanni Luca, Sergi Lozano, and Dirk Helbing. “Quality collectives: evolving socio-technical systems to support quality”. In: ed. by Nigel Gilbert, Maria Xenitidou, Dirk Helbing, Mark Jelasity, Andrzej Nowak, Johan Pouwelse, Camille Roth, Yi-Cheng Zhang, and Alois Zistler. Online at <http://www.qlectives.eu/quality-collectives-book>. 2014. Chap. Anonymous sharing behavior in Web experiments with different balance of power.
- Ciampaglia, Giovanni Luca and Dario Taraborelli. *What MoodBar tells us about registered editors*. Wikimedia Foundation, inc. July 2012. URL: <https://blog.wikimedia.org/2012/07/05/what-moodbar-tells-us-about-new-registered-editors/>.
- Ciampaglia, Giovanni Luca, Dario Taraborelli, and Howie Fung. *Research:MoodBar*. Wikimedia Foundation, inc. 2012. URL: <https://meta.wikimedia.org/wiki/Research:MoodBar>.
- Ciampaglia, Giovanni Luca. “User Participation and Community Formation in Peer Production Systems”. PhD thesis. University of Lugano, 2011.
- Millner, Antony, Giovanni Luca Ciampaglia, Nish Aravamudan, and Jacob Foster. “The cost of strategic adaptation in a simple conceptual model of climate change”. Santa Fe Institute Complex Systems Summers School Working Papers. Aug. 2008.
- Ciampaglia, Giovanni Luca. “Modello di Crescita Urbana Mediante Automi Cellulari e Sistemi Multi-Agente”. MA thesis. Sapienza University of Rome, 2006.

## TALKS & PRESENTATIONS

2014 Ostrom Workshop Fall Colloquium, Indiana University, December 1st. Oral presentation.

2014

Network Science Colloquium, Indiana University, October 13. Oral presentation.

- 2014 10th European Conference on Complex Systems (ECCS14), IMT Lucca, September 22. Oral presentation.
- 2012 3rd Intl Conference on Social Informatics, Singapore Management University, October 6-8. Oral presentation.
- 2010 4th Intl AAAI Conference on Weblogs and Social Media, George Washington University, May 23-26. Poster presentation.
- 2009 Intl Workshop on Coping with Crises in Complex Socio-Economic Systems, ETH Zürich, June 8-12. Oral presentation.
- 2009 USI-UZH p2p Workshop, *Università della Svizzera Italiana*, June 17. Oral presentation.

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<http://www.inf.usi.ch/phd/ciampaglia>

## Grants & awards

- 2012 PROSPECTIVE RESEARCHER FELLOWSHIP (18 Months) Swiss National Science Foundation.
- 2012 BEST INTERACTIVE VISUALIZATION KANTAR “Information is Beautiful” Awards.
- 2011 TRAVEL GRANT AWARD (SocInfo 2011) Singapore Management University.
- 2010 VISITING STUDENTSHIP (3 months) ETH Zürich, Switzerland.
- 2008 ADMISSION TO SUMMER SCHOOL (1 month) Santa Fe Institute Complex Systems Summer School.
- 2006 DOCTORAL STUDENTSHIP (4 years) Swiss National Science Foundation.

## Service

- 2012-present REVIEWER: Entropy, EPJ Data Science, Adv. Comp. Sys., JASSS, ACM TOIS, IEEE Internet Computing, PLoS ONE, Wikimedia Research Newsletter.
- 2013-2014 GUEST EDITOR: EPJ Data Science.
- 2013 WORKSHOP CO-ORGANIZER: Collective Behaviors and Networks, satellite workshop at ECCS’13.
- 2014 PUBLICITY CHAIR: ACM Web Science 2014.
- 2014 WORKSHOP CO-ORGANIZER: Computational Social Science, satellite workshop at ECCS’14.

## IT & programming

Programming languages: C, Java, MATLAB.  
Scripting languages: Javascript, Python/Cython, Unix Shell, VIM.  
Parallel Computing: PBS, IPython, OpenMP, MPI.  
Statistical analysis: R, SciPy + NumPy.  
Network analysis: graph-tool, NetworkX, Gephi.  
Database systems: MySQL, SQLite.  
Web Frameworks: Django, jQuery.  
Revision control: Git.  
Digital typography: L<sup>A</sup>T<sub>E</sub>X, X<sub>Y</sub>TeX.  
Personal productivity system: GTD.

## Languages

Italian (native speaker)

English (professional proficiency)

German (basic proficiency)

French (basic proficiency)