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# Jean-Loup Guillaume

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## Contact details

Professional address: Université de La Rochelle, Pôle Sciences et Technologie  
 Laboratoire L3i,  
 Avenue Michel Crépeau  
 17042 La Rochelle cedex 1 FRANCE  
 E-mail: jean-loup.guillaume@univ-lr.fr  
 Web page: <http://jlguillaume.free.fr/www/>

## Education and Professional Experience

- Since 10/2014**      **L3i – Université de la Rochelle**      **La Rochelle, France**  
 Full professor in Computer Science, Laboratoire Laboratoire Informatique, Image et Interaction
- 09/2007-09/2014**      **LIP6 – Université Pierre et Marie Curie (Paris 6)**      **Paris, France**  
 Associate professor in Computer Science, Complex Networks team.  
 « **Habilitation à diriger les recherches** » in computer science - 19/11/2012. « Déterminisme et non-déterminisme au service de la détection de communautés dynamiques ». Committee: N. Hanusse, B. Jouve, P. Van Dooren, J. Gustedt, J.-F. Marcotorchino, M. Soria and E. Viennet.
- 11/2006-08/2007**      **INMA – Université Catholique de Louvain**      **Louvain-la-Neuve, Belgium**  
 Postdoc (10 months), supervised by Vincent D. Blondel.  
 Subject: Diffusion and communities in large networks.
- 08/2006-10/2006**      **ARES Project – INRIA Rhône-Alpes**      **Lyon, France**  
 Postdoc (3 months), supervised by Eric Fleury.  
 Subject: Dynamics of contacts in sensor networks.
- 12/2004-05/2006**      **France Télécom R&D**      **Issy-les-Moulineaux, France**  
 Postdoc (18 months), supervised by Houssein Assadi.  
 Subject: Diffusion of innovations in communication networks.
- 2001-2004**      **LIAFA – Université Denis Diderot (Paris 7)**      **Paris, France**  
 Ph.D. candidate in computer science, supervised by Matthieu Latapy.  
 Ph.D. in computer science - 20/12/2004. « Analyse statistique et modélisation des grands réseaux d'interaction ». Committee: S. Boucheron, S. Fdida, E. Fleury, P. Fraigniaud, M. Habib and M. Latapy.
- 2000-2001**      **ENS Cachan**      **Paris, France**  
 Pre-doctorate diploma (DEA) in Algorithmic, supervised by Michel Morvan and Laurent Viennot.
- 06/2000**      **ENS Cachan**      **Cachan, France**  
 Admitted as a 3rd year student in the "Ecole Normale Supérieure de Cachan", computer science dept.
- 1998-2000**      **ENSEEIH**      **Toulouse, France**  
 Student at the ENSEEIH Engineering school. Two years computer science cursus. Graduated with honors.
- 1994-1998**      **Université Bordeaux I**      **Bordeaux, France**  
 Master's degree in computer science. Graduated with honors.

## Distinctions

- 11/2015-...** **Owner of PEDR**
- 10/2011-09/2014** **Owner of the *pedagogic investment prize*.**
- 10/2009-09/2014** **Owner of the *research investment prize*.**

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## Scientific animation

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### Participation in funded projects

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#### In progress

- 2017-2020: Member of Regional project ANIMOnS (AppreNtissage Interactif d'indexes inter-MOdaux sémantiques d'images médiévales), L3i – XLIM – LaBRI – IMS – CESC.M.
- 2016-2018: Member of the FEDER project Gedycrism (Dynamic management of crisis and major risks), L3i – Systel.
- 2014-2017: **Project leader** of CODDDE (Evolving communities, Diffusion and Event Detection) – ANR CONTINT, LIP6 – LIP – Influence.
- 2014-2017: **French side leader** of Indo-French project with IIT Kharagpur (CNeRG). CEFIPRA Targeted Program.

#### Former projects

- 2014-2017: REQUEST (REcursive QUery and Scalable Technologies) – 3rd call FSN « Informatique en nuage - Cloud computing ».
- 2011-2014: CLEAR lab (Centre for Learning and Retrieval) UPMC–Thales.
- 2011-03/2014: DYNGRAPH (Dynamics of Graph Topologies) – ANR JCJC.
- 2008-2012: LIP6 cluster – Project leader – BQR Equipment UPMC.
- 2010-2011: DyVi (Large graphs visualization) – ARC INRIA.
- 2008-2010: WEBFLUENCE (Opinion dynamics in virtual arenas: topology, morphogenesis and diffusion) – ANR SYSCOMM.
- 2008-2010: FRAGRANCE (Filtering, Retrieval and Tagging in Social Interaction Graphs) – ANR CONTINT.
- 2007-2010: MAPE (Maps of paedophile activity) – ANR TCOM.
- 2007-2009: MAPAP (Measurement and Analysis of P2P activity Against Paedophile content) – Safer Internet Plus Program (European union) SIP-2006-PP-221003.
- 2004-2007: METROSEC (Metrology for Security and QoS) – ACI Sécurité et Informatique.

### Scientific responsibilities

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#### Management activities

- 2016-...: Elected member of the Education Council (CFVU), Université de la Rochelle
- 2015-...: Member of the RESCOM Committee.
- 2014-...: L3i Scientific guide, interactivity and system dynamics research theme until 06/2016, Formal models theme since.
- 2014-2017: **Leader of the RNSC** (National Network on Complex Systems) – 6 partners (IRSTEA, CIRAD, IFREMER, INRA, INRIA, IRD) and 1025 researchers involved.
- 2012-2014: Member of the CNU (Conseil National des Universités) 27th section.
- 2011-2014: Member of the laboratory council of LIP6.
- 2007-2009: Associated researcher of the Université Catholique de Louvain.

#### PC Member

- 2011, 2016, 2018 : Francophone conference on algorithmic aspects of telecommunications (Algotel).
- 2017: **co-chair** of the “social networking workshop” in conjunction with COMSNETS – India.
- 2016-2017: Intl. Conf. on Complex Networks and their Applications (Complex Networks) – Italy'16, France'17.
- 2016-2017: Intl. wksp. on Dynamics in Networks (DyNo) – USA'16, Macedonia'17.
- 2014-2017: Intl Conf. on Research Challenges in Information Science (RCIS – Morocco'14 (conf + doctoral consortium), Greece'15, France'16, UK'17.
- 2012-2017: Conference on Complex Networks (CompleNet) – Florida'12, Berlin'13, Bologna'14, New York'15, France'16, Croatia'17.
- 2016: 4th Intl. wksp. on Big Data and Social Networking Management and Security (BDSN) – Spain.
- 2016: IEEE Workshop on Network Science for Communication Networks (NetSciCom) in conjunction with IEEE INFOCOM 2016.

- 2016: 6th Intl. Conf. on Web Intelligence, Mining and Semantics (WIMS'16).
- 2015-2016: World Wide Web Conference (WWW), poster track – Italy'15, Canada'16.
- 2014-2016: Intl Conf. on Computational Aspects of Social Networks (CASoN) – Portugal'14, South Africa'15, India'16.
- 2012-2016: Conférence sur les modèles et l'analyse des réseaux (MARAMI).
- 2015: **PC chair** of MARAMI 2015.
- 2012-2015: SITIS satellite Workshop on Complex Networks and their Applications.
- 2014: PC of Rescom Thematic school on "network science" – Furiani, France.
- 2014: Extraction et Gestion de Connaissances (AFGG-EGC) – Rennes, France.
- 2013: Intl Conf. on Computer Systems and Applications (AICCSA) – Fes, Morocco.
- 2009: Intl Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS Mobility and Dynamic Networks satellite workshop) – Lyon, France.

### Reviewer or evaluation activities

- Regular reviewer for many journals : SNAM, Social Science Research, Transactions on Mobile Computing, Computer Networks, IJWBC, JDIR, JNCA, JSTAT, KAIS, Physica A, PLoS ONE, The Computer Journal, Transactions on Mobile Computing, Computational Intelligence.
- 2016, 2017: Evaluations for the HCERES
- 2016, 2017: Evaluations for the generic ANR call.
- 2015: Evaluations for the Young Researcher (JCJ) ANR call.
- 2014: Evaluation of one project from CNRS-INRIA-CEFIPRA 2014 Info-French Program.
- 2014: Evaluation of the Yachay University project (teaching and research activities), Ecuador.
- 2013: Evaluations of FNRS projects, Belgium.
- 2012: Evaluation of CRA (Concerted Research Actions), Belgium.

### Publications

- 14 international journals.
- 15 international conferences and 11 international workshops with proceedings.
- 2 invited papers in international conferences.
- 8 book chapters (including 4 in French).
- 1 national journal, 13 national conferences and 3 national workshops.
- 1 popular work.

### Invited Talks

#### Invited talks in international conference or workshops

- Data Science Spring School (2017 – Tianjin, China)
- Machine Learning and Complex Networks school and workshop (2015 – Kharagpur, India).
- Dynamics on and of complex networks III (2009 – UK).
- Workshop Detection and visualization of communities in large complex networks (2008 – Belgium).
- NATO workshop Mining Massive Data Sets for Security (2007 – Italy).
- 12th CTN Wksp Network & Coalition Formation among Heterogeneous Agents (2007 – Belgium).
- Cosin conference (2003 – Italy).

#### Invited talks in national thematic schools or conferences

- Thematic school RESEM "Etudier les réseaux sociaux : espaces, mobilités" (09/2015 - Oléron)
- 22èmes rencontres de la Société Francophone de Classification (09/2015 – Nantes).
- Interdisciplinary program MOREHIST (06/2015 – Toulouse).
- GDR RO thematic day "Optimization in Complex Networks" (11/2014 – Paris).
- Workshop "Social Network Analysis in Animal Societies" (07/2013 – Strasbourg).
- Thematic school on complex systems (10/2012 – RISC-E Rennes).
- Thematic day on graph dynamics (07/2012 – ISC-PIF Paris).
- French Complex Systems Summer School (10/2011 – Paris).
- ResCom thematic school (06/2011 – La Palmyre).
- Journée Soc. Fr. de Statistiques : Réseaux sociaux, analyse et data mining (02/2010 – Paris).
- Journées Franciliennes de Recherche Opérationnelle (2006 – Paris).

**Invited talks in seminars outside France**

- Seminar of the research group “Large Graphs and Networks”, UCL (2006, 2007, 2008 – Belgium).
- Seminar of the Centre for Systems Engineering and Applied Mechanics (2007 – Belgium).
- Seminar “Dipartimento di Informatica e Sistemistica” (2006 – Italy).
- Cost 295 Dynamo meeting (2005 – Poland).

**Invited talks in seminars in France (a selection)**

- LIG/AMA (2014), LaBRI/MaBioVis (2014), LERIA (2014), LINA (2014), LaBRI (2013), IRISA (2013), CITI Labs (2013) L3i (2010), LIP6/NPA (2005 & 2007), LORIA/Madynes (2007), CITI (2006), Labri/Algorithmique distribuée (2006), IGM (2003), etc.

**Ph.D. and HDR Defense Committee**

- Mael Canu (UPMC – LIP6) – evaluation – 12/2017
- Valeria Romano (IPHC Strasbourg) – evaluation – 09/2017
- Matteo Morini (ENS Lyon) – evaluation – 09/2017
- Jean-François Viaud (Univ. La Rochelle) – committee member – 08/2017
- HDR – Mauro Sozio (TelecomParisTech) – evaluation – 07/2017
- Oana Balalau (TelecomParisTech) – evaluation – 05/2017
- Junaid Ahmed Khan (Univ. Marne la Vallée) – evaluation – 10/2016
- Noé Gaumont (UPMC – LIP6) – committee member – 10/2016
- Claire Lagesse (Univ. Paris Diderot) – committee member – 10/2015
- Fragkiskos Malliaros (Ecole Polytechnique) – evaluation – 09/2015
- Lucie Martinet (ENS de Lyon) – evaluation – 09/2015
- Mahdi Meslmawy (Univ. Le Havre) – evaluation – 09/2015
- Nicolas Dugué (Université d’Orléans) – evaluation – 06/2015
- The Dang Huynh (INRIA-Rocquencourt) – evaluation – 06/2015
- Blaise Ngonmang (Univ. Paris 13 – L2TI) – evaluation – 11/2014
- Nicolas Tremblay (ENS Lyon) – evaluation – 10/2014
- Patricia Condé Cespedes (UPMC - LSTA) – committee member – 12/2013
- Olivier Gach (Univ. Angers – LERIA) – evaluation – 12/2013
- Yann Jacob (UPMC – LIP6) – committee member (pdt of the committee) – 09/2013
- Rémy Cazabet (Univ. Toulouse 1 – IRIT) – evaluation – 03/2013
- Mauricio Soto (Univ. Paris Diderot – LIAFA) – committee member – 12/2011
- Cristobald de Kerchove (Univ. Catholique de Louvain, INMA) – evaluation – 08/2009
- Middle term Ph.D. defense: Mael Canu (UPMC – LIP6, 12/2014), Blaise Ngonmang (Univ. Paris 13 – L2TI, 04/2013), The Anh Dang (Univ. Paris 13 – L2TI, 03/2012), John Whitbeck (UPMC – LIP6, 10/2010)

**Organization tasks**

- 2017: Organizing chair of Marami 2017 – La Rochelle, 10/2017.
- 2014: Co-Organizer of Marami 2014 – Paris, 10/2014.
- 2005: Co-Organizer of Algotel 2005 – Presqu’île de Giens, France, 05/2005.
- 2005: Co-Organizer and member of the scientific committee of the school on complex networks. – Paris, France, 04/2005.
- 2004: Co-Organizer of the thematic symposium on social networks of the Internet – Paris, France.
- 2004: Co-Organizer of the first national conf on Graphs, Networks and Modeling – Paris, France.
- 2002-2004: Local organizer of the Graphs, Networks and Modeling seminar.
- 2001: Co-Organizer of the One day conference on dynamics graphs and Web graph – Paris, France.

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**Teaching and students**

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**Since 10/2014: Full Professor at ULR**

- Head of the ICONE master’s degree in computer science, University of La Rochelle since 09/2015.

**Course responsibilities are greyed.**

| <b>2015-2016 (PR)</b> |                               | <b>Université de La Rochelle</b> | <b>La Rochelle, France</b>       |
|-----------------------|-------------------------------|----------------------------------|----------------------------------|
| L1                    | CS and Internet certificate   |                                  | 45h (tp)                         |
| DUT2-IUT              | Web development – rich client |                                  | 44h (class work + tp)            |
| L2 info               | Introduction to Databases     |                                  | 40,5h (course + class work + tp) |
| L3 info               | Databases                     |                                  | 40,5h (course + class work + tp) |
| LPro IUT              | Web development               |                                  | 8h (course + tp)                 |
| LPro IUT              | Technology watch              |                                  | 6h (management)                  |
| L3 - IAE              | Databases                     |                                  | 49,5h (course + tp)              |
| M2 Icone              | Initiation to research        |                                  | 3h (course)                      |

| <b>2014-2015 (PR)</b> |                               | <b>Université de La Rochelle</b> | <b>La Rochelle, France</b>       |
|-----------------------|-------------------------------|----------------------------------|----------------------------------|
| L1                    | CS and Internet certificate   |                                  | 45h (tp)                         |
| DUT2-IUT              | Web development – rich client |                                  | 44h (class work + tp)            |
| L2 info               | Introduction to Databases     |                                  | 40,5h (course + class work + tp) |
| LPro IUT              | Web development               |                                  | 8h (course + tp)                 |
| LPro IUT              | Technology watch              |                                  | 6h (management)                  |
| L3 - IAE              | Databases                     |                                  | 49,5h (course + tp)              |
| M2 Icone              | Initiation to research        |                                  | 3h (course)                      |

## 2007-2014: associate professor at UPMC

- Head of the L2 ATIC (Applications des Technologies de l'Information et de la Communication) – second semester 2010-2011.
- 2008-2014: member of the selection committee for the “Networks Master” UPMC (~100 applications to evaluate per committee member every year).
- 2012-2014: member on the habilitation committee for the master of Computer Science, UPMC.

### Courses responsibilities are indicated by a grey overline

| <b>2013-2014 (MCF)</b> |                                    | <b>Université Pierre et Marie Curie</b> | <b>Paris, France</b>           |
|------------------------|------------------------------------|---|--------------------------------|
| L1                     | Recursive programming              |   | 43,5h (class work + tp)        |
| L2-ATIC                | Application development            |   | 42h (course + management)      |
| L2-ATIC                | Web development                    |   | 84h (course + class work + tp) |
| L2-ATIC                | Fellow management                  |   | 16h (management)               |
| L3-DANT                | New technologies for the web       |   | 37h (course + tp)              |
| L3-DANT                | Project + fellowship management    |   | 10h (management)               |
| M2                     | Recommendation and social networks |   | 0h (management)                |

| <b>2012-2013</b> |                                    | <b>Université Pierre et Marie Curie</b> | <b>Paris, France</b>           |
|------------------|------------------------------------|---|--------------------------------|
| L2-PRO           | Application development            |   | 28h (course + management)      |
| L2-PRO           | Web development                    |   | 21h (course + class work + tp) |
| L2-PRO           | Fellow management                  |   | 10h (management)               |
| L3               | Networks                           |   | 45h (class work + tp)          |
| L3-DANT          | New technologies for the web       |   | 72h (course + tp)              |
| L3-DANT          | Project + fellowship management    |   | 28h (management)               |
| M2               | Group work                         |   | 28h (class work)               |
| M2               | Recommendation and social networks |   | 0h (courses + tp)              |

| <b>2011-2012</b> |                                    | <b>Université Pierre et Marie Curie</b> | <b>Paris, France</b>           |
|------------------|------------------------------------|---|--------------------------------|
| L2-PRO           | Application development            |   | 33h (course + management)      |
| L2-PRO           | Web development                    |   | 72h (course + class work + tp) |
| L2-PRO           | Fellow management                  |   | 15h (management)               |
| L3               | Networks                           |   | 45h (class work+tp)            |
| L3-DANT          | New technologies for the web       |   | 10h (course + tp)              |
| M2               | Recommendation and social networks |   | 14h (courses + tp)             |

| <b>2010-2011</b> |                                    | <b>Université Pierre et Marie Curie</b> | <b>Paris, France</b> |
|------------------|------------------------------------|---|----------------------|
| L2-PRO           | Head of formation                  | (eq. 16h)                               |                      |
| L2-PRO           | Application development            | 18,5h (course + management)             |                      |
| L2-PRO           | Web development                    | 18h (course)                            |                      |
| L2-PRO           | Fellow management                  | 18h (management)                        |                      |
| L3               | Networks                           | 43h (class work+tp)                     |                      |
| L3-DANT          | Project + fellowship management    | 6h (management)                         |                      |
| L3-DANT          | New technologies for the web       | 70h (course + tp)                       |                      |
| M1               | Networking projects                | 33h (management)                        |                      |
| M2               | Recommendation and social networks | 14h (courses + tp)                      |                      |

| <b>2009-2010</b> |                                    | <b>Université Pierre et Marie Curie</b> | <b>Paris, France</b> |
|------------------|------------------------------------|---|----------------------|
| L2-PRO           | Web development                    | 18h (course)                            |                      |
| L3               | Networks                           | 44,25h (class work+tp)                  |                      |
| L3-DANT          | Project + fellowship management    | 54h (management)                        |                      |
| L3-DANT          | New technologies for the web       | 70h (course + tp)                       |                      |
| M2               | Multimedia applications            | 8h (course)                             |                      |
| M2               | Fellow management (Stage pro)      | 18h (management)                        |                      |
| M2               | Recommendation and social networks | 10h (courses + tp)                      |                      |

| <b>2008-2009</b> |                                 | <b>Université Pierre et Marie Curie</b>     | <b>Paris, France</b> |
|------------------|---------------------------------|---|----------------------|
| L2               | Ocaml project                   | 20h (class work)                            |                      |
| L3               | Introduction to networks        | 44,25h (class work+tp)                      |                      |
| L3-DANT          | Project + fellowship management | 50h (management)                            |                      |
| M1               | Networking projects             | 33h (management)                            |                      |
| M2               | Multimedia and Qos              | 75h (class work) – including 35h in Vietnam |                      |
| M2               | Multimedia applications         | 35h (course + class work)                   |                      |
| M2               | Fellow management (Stage pro)   | 10h (management)                            |                      |

| <b>2007-2008</b> |  | <b>Université Pierre et Marie Curie</b> | <b>Paris, France</b> |
|------------------|--|---|----------------------|
| L3               | Introduction to networks               | 45h (class work + pw)                   |                      |
| L3 Pro           | Project + fellowship management        | 40h (management)                        |                      |
| M1               | Networking projects                    | 33h (management)                        |                      |
| M2               | Multimedia and Qos                     | 40h (class work)                        |                      |
| M2               | Multimedia applications                | 35h (cours + class work)                |                      |
| M2               | Fellow management (Projet de synthèse) | 11h (management)                        |                      |
| M2               | Fellow management (Stage pro)          | 18h (management)                        |                      |

### 2006-2007: postdoctoral fellow

| <b>2007</b> |              | <b>Université Catholique de Louvain</b> | <b>Louvain-la-Neuve, Belgium</b> |
|-------------|--------------|---|----------------------------------|
| L2-L3-M1    | Graph theory |   | 18h (class work+management)      |

| <b>2006</b> |              | <b>Université Catholique de Louvain</b> | <b>Louvain-la-Neuve, Belgium</b> |
|-------------|--------------|---|----------------------------------|
| L2          | Graph theory |   | 10h (class work)                 |

### 2002-2005: Ph.D. student

| <b>2005</b> |                           | <b>Université Denis Diderot</b> | <b>Paris, France</b>    |
|-------------|---------------------------|---------------------------------|-------------------------|
| M1          | OS, networks and Internet |                                 | 30h (course+class work) |

| <b>2004-2005</b> |                   | <b>Université Denis Diderot</b> | <b>Paris, France</b> |
|------------------|-------------------|---------------------------------|----------------------|
| L3               | Algorithmics      |                                 | 50h (class work+tp)  |
| M1               | Fellow management |                                 | 14h                  |

| <b>2003-2004</b> |  | <b>Université Denis Diderot</b> | <b>Paris, France</b> |
|------------------|--|---------------------------------|----------------------|
|------------------|--|---------------------------------|----------------------|

|                  |                                 |                     |                      |
|------------------|---------------------------------|---------------------|----------------------|
| L2               | Java programming                | 50h (class work+tp) |                      |
| M1               | Fellow management               | 14h                 |                      |
| <b>2002-2003</b> | <b>Université Denis Diderot</b> |                     | <b>Paris, France</b> |
| L2               | Unix and automaton              | 64h (class work+tp) |                      |

## Ph.D. students

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### Since 12/2016.

**Noudéhouéno Houssou:** Co-advisor (50%) with A. Prigent. Analysis and modeling of user trajectories in real systems.

### Since 01/2016

**Thanh hoa Nguyen:** Co-advisor (50%) with M. Coustaty. Segmenting characteristics elements of documents with graphs of communities.

### Since 09/2014

**Raphael Tackx:** Co-advisor (30%) with F. Tarissan. Analysis and modeling of the multipartite structure of complex networks.

### Since 06/2012

**Damien Noguez:** Co-advisor (40%) with J.-F. Marcotorchino. Contextual analysis of logs to optimize the detection of security anomalies in IT networks.

### 2011-2015 (defense 15/06/2015)

**Maximilien Danisch:** Co-advisor (50%) with B. Le Grand: Ego centered community structure in complex networks.

### 2011-2014

**Alice Albano:** Co-advisor (50%) with B. Le Grand. Complex networks dynamics: an analysis in extrinsic time.

### 2009-2012

**Massoud Seifi:** Co-advisor (80%) with M. Latapy. Multi-scale analysis and visualization of complex networks.

### 2008-2011

**Thomas Aynaud:** Co-advisor (80%) with M. Latapy. Community detection in evolving networks.

## Postdoctoral fellows

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**2017-2018** Roberto Interdonato (ULR): social media mining for crisis management and event detection.

**2014-2015 (3m)** Alice Albano (UPMC): conception of a software for the simulation of diffusion on evolving networks.

**2014** Yann Jacob (UPMC in collaboration with Univ Paris 1 and Rexel): Client and products segmentation.

**2013-2014** François Queyroi (UPMC): Link streams for evolving community detection.

**2012-2013** Romain Campigotto (UPMC): Community detection.

## Master 2 Interns

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**2014** Issam Bani (UPMC): Analysis of learning and interaction traces in a MOOC.

**2014** Raphael Tackx (UPMC): Bipartite networks and communities.

**2014** Marine Levé (UPMC and Univ. Strasbourg): Leadership and influence in wild horse herds.

**2011** Alice Albano (UPMC): Modeling and simulation of diffusion processes in evolving networks.

**2008** Massoud Seifi (UPMC): Multi-scale visualization of complex networks.

**2008** Thomas Aynaud (UPMC): Multi-scale study of complex networks.

**2007** Etienne Lefebvre (Université Catholique de Louvain): Community detection in complex networks.

## Master 1 Interns or equivalent

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- 2009** Co-advisor of a group of 3 students (UPMC): Capture of P2P traces.
- 2004** Stevens le-Blond (M1 Epitech): Measurements of P2P networks.
- 2004** Samuel Leboeuf (M1 Polytech Grenoble), Jérôme Wrede (M1 ENS de Lyon): Complex networks modeling.
- 2001-2004** 23 M1 students during TER/initiation to research (Univ. P7).



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## Publication List

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### International journal with referring process (14)

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- [1] Modeling Cascade Formation in Twitter amidst Mentions and Retweets.**  
Soumajit Pramanik, Qinna Wang, Maximilien Danisch, Jean-Loup Guillaume, Bivas Mitra.  
Social Network Analysis and Mining 7(1): 41:1-41:18 (2017).
- [2] The Power of Consensus: Random Graphs Still Have No Communities.**  
Romain Campigotto and Jean-Loup Guillaume.  
Lecture Notes in Social Networks 2014, pp 145-164.
- [3] Studying Graph Dynamics Through Intrinsic Time Based Diffusion Analysis.**  
Alice Albano, Jean-Loup Guillaume, Sébastien Heymann, Bénédicte Le Grand.  
Lecture Notes in Social Networks, may 2015. pp 103-124.
- [4] Multi-egocentered communities in practice.**  
Maximilien Danisch, Jean-Loup Guillaume, Bénédicte Le Grand.  
Social Network Analysis and Mining Journal, 4:180, 2014.
- [5] Towards multi-ego-centered communities: a node similarity approach.**  
Maximilien Danisch, Jean-Loup Guillaume, Bénédicte Le Grand.  
International Journal of Web Based Communities, 2013, Vol. 9, No. 3, pp.299-322.
- [6] Impact of Random Failures and Attacks on Poisson and Power-Law Random Networks.**  
Clémence Magnien, Matthieu Latapy, Jean-Loup Guillaume.  
ACM Computing surveys, volume 43, issue 3, april 2011.
- [7] Fast unfolding of communities in large networks.**  
Vincent D. Blondel, Jean-Loup Guillaume, Renaud Lambiotte, Etienne Lefebvre.  
Journal of Statistical Mechanics: Theory and Experiments (2008) P10008.
- [8] Description and simulation of dynamic mobility networks.**  
Antoine Scherrer, Pierre Borgnat, Eric Fleury, Jean-Loup Guillaume, Céline Robardet.  
Computer Networks 52 (2008), pages 2842-2858.
- [9] Local leaders in random networks.**  
Vincent D. Blondel, Jean-Loup Guillaume, Julien M. Hendrickx, Cristobald de Kerchove, Renaud Lambiotte.  
Physical Review E 77, 036114 (2008).
- [10] Distance distribution in random graphs and application to network exploration.**  
Vincent D. Blondel, Jean-Loup Guillaume, Julien M. Hendrickx, Raphael Jungers.  
Physical Review E 76, 066101 (2007).
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