

# adrienfriggeri

social network analyst

## about

31 rue Smith  
69002 Lyon  
France

adrien@friggeri.net  
http://friggeri.net  
fb://adrien

## languages

bilingual french/english  
spanish & italian notions

## programming

♥ JavaScript  
(ES5, node.js)  
Python, C, OCaml  
CSS3 & HTML5

## interests

complex networks, social networks, community detection, community structure, overlapping communities, information diffusion, viral marketing, social inference, recommendation, data mining

## education

- |            |   |  |
|------------|---|--|
| since 2009 | <b>Ph.D.</b> candidate in Computer Science<br><i>A Quantified Theory of Social Cohesion.</i>  | DNET/INRIA, LIP/ÉNS de Lyon                |
| 2007–2008  | <b>M.Sc. magna cum laude</b><br>Majoring in Computer Science<br>Specialization in Complex Systems   | IXI, École Normale Supérieure de Lyon      |
| 2006–2007  | <b>B.Sc. magna cum laude</b><br>Majoring in Computer Science  | École Normale Supérieure de Lyon           |
| 2003–2006  | <b>Classes Préparatoires aux Grandes Écoles</b><br>Preparation for national competitive entrance exams to leading French “grandes écoles”, specializing in mathematics and physics. | Lycée Fénélon, Lycée Louis le Grand, Paris |
| 2003       | <b>French Baccalauréat S. with honors</b><br>Specialization in mathematics and physics  | Lycée Louis le Grand, Paris                |

## experience

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|------------|---|----------------------|
| 02–07 2009 | <b>LIP6/CNRS, Paris</b><br><i>Visualization of complex networks.</i>                      | Research Internship. |
| 06–08 2008 | <b>ISCFIF/CNRS, Paris</b><br><i>Diffusion in the Blogosphere. Happy Flu.</i>              | Research Internship. |
| 06–08 2007 | <b>LIP6/CNRS, Paris</b><br><i>Kernels in real world networks.</i>                         | Research Internship. |
| 07–08 2005 | <b>Kelkoo.com</b><br><i>Creation of a keyword generator for Google Adwords.</i>           | Summer job.          |
| 07–08 2004 | <b>MonsieurPrix.com</b><br><i>Development of an e-commerce product indexation spider.</i> | Summer job.          |

## applications

- |      |  |                   |
|------|--|-------------------|
| 2012 | <b>Who did I forget ?</b><br>Guest list recommendation for Facebook events based on friends already attending the event.                           | whodidiforget.com |
| 2011 | <b>Fellows</b><br>Automatic community detection among Facebook Friends in order to validate the <i>cohesion</i> measure, creation of friend lists. | fellows-exp.com   |
| 2008 | <b>Happy Flu</b><br>Experiment aimed to measure viral spreading of content across the blogosphere.   | happyflu.com      |

## publications

### article in peer-reviewed journal

Reconstructing Social Interactions Using an unreliable Wireless Sensor Network

Adrien Friggeri, Guillaume Chelius, Eric Fleury, Antoine Fraboulet, France Mentré, Jean-Christophe Lucet  
*Computer Communications* 34.5 (Apr. 2011) pp. 609–618. Elsevier, 2011

A Real-World Spreading Experiment in the Blogosphere

Adrien Friggeri, Jean-Philippe Cointet, Matthieu Latapy  
*Complex Systems* 19.3 (2011). *Complex Systems Publications, Inc.*, 2011

### peer-reviewed conferences/proceedings

Biais dans les mesures obtenues par un réseau de capteurs sans fil

Adrien Friggeri, Guillaume Chelius  
*12èmes Rencontres Francophones sur les Aspects Algorithmiques de Télécommunications (AlgoTel)*, 2010, Belle Dune, France

Communautés : Arrêtons de ne compter que les arêtes

Adrien Friggeri, Guillaume Chelius, Eric Fleury  
*13es Rencontres Francophones sur les Aspects Algorithmiques de Télécommunications (AlgoTel)*, 2011, Cap Estérel, France

Egomunities, Exploring Socially Cohesive Person-based Communities

Adrien Friggeri, Guillaume Chelius, Eric Fleury  
*NetSci 2011 The International School and Conference on Network Science*, 2011, Budapest, Hongrie

Fellows: Crowd-sourcing the evaluation of an overlapping community model based on the cohesion measure

Adrien Friggeri, Guillaume Chelius, Eric Fleury  
*Interdisciplinary Workshop on Information and Decision in Social Networks*, 2011, Cambridge, États-Unis

Fellows: Crowd-sourcing the evaluation of an overlapping community model based on the cohesion measure

Adrien Friggeri, Guillaume Chelius, Eric Fleury  
*Complex Dynamics of Human Interactions*, 2011, Vienna, Autriche

Triangles to Capture Social Cohesion

Adrien Friggeri, Guillaume Chelius, Eric Fleury  
*Third IEEE International Conference on Social Computing*, 2011, Cambridge, États-Unis

Trouver des communautés socialement cohésives est NP-dur

Adrien Friggeri, Guillaume Chelius, Eric Fleury  
*13emes journées Graphes et Algorithmes*, 2011, Lyon, France

Electronic Sensors for Measuring Interactions between Healthcare Workers (HCWs) and Patients (Pts): the Case of Tuberculosis (TB)

Jean-Christophe Lucet, Guillaume Chelius, Cédric Laouenan, Adrien Friggeri, N. Veziris, D. Lepelletier, D. Abiteboul, Elisabeth Bouvet, Eric Fleury, France Mentré  
*2010 Interscience Conference on Antimicrobial Agents and Chemotherapy*, 2010, Boston, États-Unis

### other publications

Des triangles pour mesurer la cohésion sociale : Fellows, une expérimentation sur Facebook

Adrien Friggeri, Eric Fleury  
*Séminaire w2s @ La Cantine*, 2011

## **research reports**

Egomunities, Exploring Socially Cohesive Person-based Communities

Adrien Friggeri, Guillaume Chelius, Eric Fleury

*Rapport de recherche RR-7535, 2011*

Triangles to Capture Social Cohesion

Adrien Friggeri, Guillaume Chelius, Eric Fleury

*Rapport de recherche RR-7686, 2011*

Finding cohesive communities with  $C^3$

Adrien Friggeri, Eric Fleury

*Rapport de recherche RR-7947, 2012*

Maximizing the Cohesion is NP-hard

Adrien Friggeri, Eric Fleury

*Rapport de recherche RR-7734, 2011*