

Tiphaine Viard

Personal information	born on 12/12/1990, french
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Current situation: Postdoctoral researcher at Riken AIP, Tokyo.

Publications

Journals

- [1] Tiphaine Viard, Matthieu Latapy, Clémence Magnien. Computing maximal cliques in link streams. *Theoretical Computer Science*, 609, 245-252, 2016.
- [2] Tiphaine Viard, Clémence Magnien, Matthieu Latapy. Enumerating maximal cliques in link streams with durations. *Information Processing Letters*, 2018.

International conferences and workshops

- [3] Tiphaine Viard, Raphaël Fournier-S'niehotta, Matthieu Latapy, Clémence Magnien. Discovering patterns of interest in IP traffic using cliques in bipartite link streams. *CompleNet 2018*, Boston, USA.
- [4] Hindol Rakshit, Tiphaine Viard, Robin Lamarche-Perrin. Aggregation of link streams for multiscale analysis. *Conference on Complex Systems 2016*, Amsterdam, Netherlands.
- [5] Noé Gaumont, Tiphaine Viard, Raphaël Fournier-S'niehotta, Qinna Wang, Matthieu Latapy. Analysis of the temporal and structural features of threads in a mailing-list. *CompleNet 2016*, Dijon, France.
- [6] Tiphaine Viard, Matthieu Latapy, Clémence Magnien. Revealing contact patterns among high-school students using maximal cliques in link streams. *ASONAM'15/DyNo*, Paris, France.
- [7] Thibaud Arnoux, Tiphaine Viard, Matthieu Latapy, Clémence Magnien, Christophe Prieur. Maximal cliques in real-world interaction streams, poster at *NetSci'15*, Zaragoza, Spain.
- [8] Tiphaine Viard, Matthieu Latapy. Identifying roles in an IP network with temporal and structural density. *INFOCOM'14/NetSciCom*, Toronto, Canada.
- [9] Matthieu Latapy, Tiphaine Viard. *Complex Networks and Link Streams for the Empirical Analysis of Large Software*. *PetriNets 2014*, Tunis, Tunisia, *invited paper*.

National conferences

- [10] Tiphaine Viard, Matthieu Latapy, Clémence Magnien. Calcul de cliques maximales dans les flots de liens. ALGOTEL 2015 (short version of [1])

Submitted

- [11] Matthieu Latapy, Tiphaine Viard, Clémence Magnien. Stream graphs and link streams for the modelling of interactions over time.

Grants and Awards

1. 2017: Shortlisted for the *Complex Systems PhD award* organized by the Complex Systems Institute (ISC-PIF) (24 participants, 6 on shortlist)
2. 2013-2016: Doctoral Grant from the French Ministry of Defense (Délégation Générale de l'Armement)

Selected talks

1. "Modelling IP traffic as link streams for event detection". Journées Rescom 2016, Lille, France.
2. "Modelling interaction streams with link streams". Seminar given at National Institute of Informatics, Tokyo, Japan.
3. "Cliques in link streams". Journées ResCom 2015, Paris, France.
4. "A new density for link streams". Journées ResCom 2014, Lyon, France.
5. Multiple talks alongside a collaboration with THALES Group.

Education

- 2018 - Post-doctoral researcher at RIKEN AIP.
- 2016 - 2017 Post-doctoral researcher at CEDRIC, CNAM.
- 2013 - 2016 PhD in Computer Science from Université Pierre et Marie Curie, entitled "Link streams for the modelling of interactions over time and application to the analysis of IP traffic". Supervised by Matthieu Latapy and Clémence Magnien.
- 2015 - 2015 3-months research exchange at the *Fukuda Lab*, National Institute of Informatics, Tokyo, Japan.
- 2013 - 2013 Master's degree with honours from Université Pierre et Marie Curie, specialization in Networks.
- 2008 - 2013 Engineering diploma (master's level) from Efrei, specialization in Networks and Security.
- 2008 - 2011 Bachelor of Science in Mathematics and Computer Science from Université de Marne-la-Vallée, France.

Internship cosupervisions

Year	Duration	Intern	Origin	Level	Co- advising	Topic
2016	6 months	Audrey Wilmet	ENS Lyon	M2	Matthieu Latapy	Event detection in IP traffic modelled as a link stream
2016	10 weeks	Mridul Seth	IIT Karagh- pur	L3	Robin Lamarche- Perrin	An Aggregation Algorithm for Multiscale Analysis of Dynamical Networks (practical point of view)
2016	6 months	Hindol Rakshit	IIT Karagh- pur	M2	Robin Lamarche- Perrin	An Aggregation Algorithm for Multiscale Analysis of Dynamical Networks (theoretical point of view)
2014	6 months	Thibaud Arnoux	ENS Cachan	M2	Matthieu Latapy	An Algorithm for clique detection with varying Δ in link streams
2013	3 months	Lucy Yu	MIT	L2	Matthieu Latapy	Community detection in link streams: proof of concept on the Debian mailing-list archive

Scientific responsibilities

CONFERENCES

1. Program Committee member of DyNo 2018, a workshop of ASONAM 2018, Barcelona, Spain.
2. Program Committee member of the Interdisciplinary Workshop on Recommender Systems (InWoRS) 2018, Paris, France.
3. Program Committee and Organizing Committee member of the Interdisciplinary Workshop on Recommender Systems (AISR) 2017, Paris, France.
4. Program Committee member of Complex Systems Conference 2016, Amsterdam, Netherlands.
5. Program Committee member of DyNo 2016, a workshop of ASONAM 2016, Davis, USA.
6. Elected council member of the Council of the Complex Systems Society (2014 - 2017)
7. Board member of eYRNCS, an e-workshop dedicated to young researchers of CS-DC 2015 conference.
8. Organizing Committee member of ASONAM 2015, Paris, France.
9. Organizing Committee member of MARAMI 2015, Paris, France.
10. Reviewer for 3 international journals and 4 international conferences: Transactions on Visualization and Computer Graphics, ComNet, Information Sciences, WWW'15, TRAC'15, NetSciCom'15, NetSciCom'16.

PROJECTS

1. Co-supervisor of the FLAMS project, accepted in the PEPS SISC (Sécurité Informatique et des Systèmes Cyber-physiques) 2016 program (4 partners, 5k€).

Teaching and vulgarization

TEACHING

All my teachings have been done at Université Paris Diderot.

Year	Level	Course code	Description	Hours taught
2015 - 2016	L1	IO2	Internet and Tools: HTML, CSS, PHP, MySQL and JavaScript	48
	L2	PI4	Computer Science Project	16
2014 - 2015	L2	POO-IG	Object-oriented pro- gramming and graphi- cal interfaces	64
2013 - 2014	L1	IF1	Introduction to Java programming	64
Total				192 hours

OTHER

1. 2013,2014 – Stand holder at la "Fête de la Science", an annual french event for the promotion of science.
2. 2015 – Talk at the CoFestival, an inclusive event to convey technical and scientific knowledge. Talk title: "How research works in computer science", with Noé Gaumont.
3. 2014 – Participation in a program welcoming a high school student for one week to show how a laboratory works.