Augustin Chaintreau

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New York, NY 10027

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http://www.cs.columbia.edu/∼augustin

EXPERIENCE

Columbia University New York, USA
Assistant Professor, Dept of Computer Science .... Sep. 2010 - Present

Thomson/Technicolor Research Lab Paris, France
Member of technical staff .... Oct. 2005 - July 2010

Intel Research Cambridge, UK
Research intern .... Sep. 2004 - Aug. 2005

Chennai Mathematical Institute Chennai, India
Visiting Lecturer .... July 2001 - Oct. 2001

EDUCATION

INRIA-Ecole Normale Supérieure Paris, France
Ph.D. in Computer Science, Advisor: François Baccelli. Jan. 2006

Université Pierre et Marie Curie Paris, France
DEA [M.Sc.] "Probability and Applications", mention bien [with honors]. June 2002

Ecole Normale Supérieure Paris, France
Magistère [B.Sc] "Pure and Applied Maths, and Computer Science". June 2001

DISTINCTIONS

- **ACM SIGMETRICS Rising Star Award** 2013.
- **NSF CAREER award** 2013, "Behavioral Network Analytics for Data Transparency".
- French finalist for **ERCIM Cor Baayen Award** 2008.
- Honorable mention for **Prix de thèse SPECIF/French Science Academy Gilles Kahn** 2006

- **runner up for Best Paper Award at ACM COSN** 2015, for "Who Contributes to the Knowledge Sharing Economy?", A. Ramachandran and A. Chaintreau,
- **Best paper award at ACM SIGCOMM USENIX IMC** 2013, for "Follow the Money: Understanding Economics of Online Aggregation and Advertising", P. Gill, V. Erramilli, A. Chaintreau, B. Krishnamurthy, K. Papagiannaki, and P. Rodriguez.
- **Best student paper at Rencontre Algotel** 2013, for "De la difficulté de garder ses amis (quand on a des ennemis) !" D. Mazauric, G. Ducoffe, A. Chaintreau.
- **Best student paper at IEEE MASS** 2011, for "Energy Efficient Offloading of 3G Networks" N. Ristanovic, J.-Y. Le Boudec, A. Chaintreau and V. Erramilli.
- **Best paper award at ACM SIGMETRICS** 2009, for "The Age of Gossip: Spatial Mean Field Regime", A. Chaintreau, J.-Y. Le Boudec and N. Ristanovic.
- **Best paper award at ACM CoNEXT** 2007, for "The Diameter of Opportunistic Mobile Networks", A. Chaintreau, A. Mtibaa, C. Diot and L. Massoulié.
- **Nomination for best paper award at IEEE INFOCOM** 2001, "Impact of TCP-like congestion control on the throughput of multicast groups", A. Chaintreau, F. Baccelli and C. Diot.

MEDIA COVERAGE OF MY RESEARCH

- On social clicks: **Washington Post** brwn.co/cliwapo, **Fortune** brwn.co/clifortune, **New Scientist** brwn.co/clinscientist, **NY Daily News** brwn.co/clinydaily, **PC Mag** brwn.co/clipcmag, **Daily Mail** (UK) **the Times of India** (India) **Les Echos, Slate.fr, BFM TV** (France) **La Stampa** (Italy), and multiple radio interviews. June 2016.
- On location data: **BuzzFeed** brwn.co/locbuzz, **Forbes** brwn.co/locforbes, **CBS** brwn.co/loccbs, **ZDNet** (France), April 2016.
- On the fair use of personal data: **the Economist** brwn.co/fairdataecon and **Slate** brwn.co/adslate, March 2016.
- On web transparency: the **New York Times** bits brwn.co/xraynyt, the **Guardian** Tech Blog brwn.co/xrayguardian, **FastCompany** co.exist brwn.co/xrayfastco, August 2014.
- On online advertisment revenue: **MIT Tech. Review** brwn.co/adsmittr, October 2013.

MEDIA INTERVIEWS
- Sharing news onlines for Seattle's Morning News on **KIRO**, Lynda Steele Show on **CKNW** (Canada), and Mike Hosking Breakfast on **Newstalk ZB** (New Zealand), June 2016.
- Privacy and Internet of Things in **O'Reilly Report**, `brwn.co/badguysoreilly`, March 2016.
- Crowdsourcing in **MIT Technological Review** `brwn.co/mitcrowdsourcing`, August 2014.
- Privacy in Social Networks in **ThinkProgress** `brwn.co/tpchatprivacy`, May 2014.
- Geo-Personalization of Search Engines in **NY Daily News** `brwn.co/nydngoogle`, April 2014.
- Social Network Dating Apps in **Columbia Spectator** `brwn.co/cspdating`, March 2014.

KEYNOTE, TALKS
- Computer Science Colloquium, *Dartmouth college*, Apr. 2014.
- keynote speaker (rising star award winner), *ACM SIGMETRICS* conference, June 2013.
- keynote speaker, *Bell Labs' Alcatel-Lucent Technical Academy*, Nov. 2011.

Seminar Series

- Stanford University, CA	Apr. 2016
- Google, Mountain View, CA	Apr. 2016
- MIT MediaLab, Boston, MA	Feb. 2016
- INRIA-Eurécom, Nice, France	Jan. 2016
- Yale University, New Haven, CT	Apr. 2015
- Teacher's college, New York, NY	Apr. 2015
- Texas Albert and Mary University, College Station, TX	Mar. 2015
- École Polytechnique de Lausanne, Lausanne, Switzerland	June 2014
- INRIA, Paris, France	Mar. 2014
- Google, New York, NY	Feb. 2013
- École Polytechnique de Lausanne, Lausanne, Switzerland	June 2012
- University of Illinois at Urbana Champaign, IL	May 2012
- Harvard University, Boston, MA	Apr. 2012
- Polytechnic Institute of NYU, New York, NY	Feb. 2012
- Massachusetts Institute of Technology, Boston	Dec. 2011
- Alcatel-Lucent Technical Academy, Bell Labs, Murray-Hill	Nov. 2011
- INRIA, Sophia Antipolis, France	Nov. 2011
- Universidade Federal do Rio de Janeiro	Oct. 2011
- Telefonica, Barcelona, Spain	July 2011
- Google, New York, NY	Dec. 2010
- Technicolor Opening day, Palo Alto	Nov. 2010
- Kazakh-British Technical University, Almaty, Kazakstan	Sep. 2010
- University of Southern California, CA	Mar. 2010
- Columbia University, New York, NY	Mar. 2010
- University of Toronto, Canada	Nov. 2009
- University of Waterloo, Canada	Nov. 2009
- McGill University, Montreal, Canada	Nov. 2009
- University of Illinois at Urbana Champaign, IL	Sep. 2009
- Ecole Polytechnique Fédérale de Lausanne, Switzerland	Sep. 2009
- University of Southern California, LA, CA	June 2009
- California Institute of Technology, Pasadena, CA	June 2009
- INRIA Sophia Antipolis, France	May 2009
- Princeton University, NJ	Dec. 2008
- University of Southern California, LA, CA,	Nov. 2008
- University of Toronto, Canada,	Aug. 2008
- Ecole Polytechnique Fédérale de Lausanne, Switzerland	June 2008
- Boston University, Boston, MA	Dec. 2007
- University of California San Diego, San Diego, CA	June 2007
- University of Cambridge, UK	May 2006
- Ecole Normale Supérieure, Paris, talk for the entering class	Sep. 2004
- Université Paris 7 Denis Diderot	June 2004

- IBM T. J. Watson	Apr. 2004
- Columbia University, New York, NY	June 2002
- IBM T. J. Watson, Hawthorne, NY	June 2002
- Indian Inst. Tech. (IIT), Chennai, India	Sep. 2001
- Indian Inst. Tech. (IIT), Tata Inst. for Fund. Res. (TIFR), Mumbai, India	Sep. 2001
- Indian Inst. Science (IISc), Bangalore, India	Sep. 2001
- Indian Inst. Tech. (IIT), Indian Statistical Inst. (ISI) Delhi, India	Sep. 2001

Invited plenary speaker

- NYU Workshop, *Control and Performance of Large-Scale Networks*, May 2015.
- EURANDOM Workshop, *Control and Performance of Large-Scale Networks*, July 2014.
- Banff International Research Station, *Workshop on Asymptotics of Large-Scale Interacting Networks*, Feb. 2013.
- *DIMACS Workshop on Economic Aspects of Information Sharing*, Feb. 2013.
- *DIMACS Workshop on Connectivity and Resilience for Large-Scale Networks*, Apr. 2012.
- *3rd 2011 Southern California Symposium on Network Economics and Game Theory*, Nov. 2011.
- *73rd Annual Meeting of the Institute of Mathematical Statistics*, Aug. 2010.
- *17th Applied Probability Day*, Columbia University, June 2010.
- *3rd MITACS Workshop on Learning in Networked Systems*, Bellairs Research Institute, McGill U., Mar. 2010.
- *5th Workshop on Information Theory and Applications (ITA)*, UCSD, Feb. 2010.
- *Workshop on "New Mathematical Frontiers in Network Multi-Resolution Analysis"* , Institute for Pure and Applied Mathematics, UCLA, Nov. 2008.
- *1st International workshop on Mobility, Algorithms and Graph theory in dynamic networks (IMAGINE)*, Sep. 2007.
- *16th International Symposium on Mathematical Theory of Networks and Systems (MTNS)*, July 2004.

Tutorials

- tutorial "Web Transparency", *ACM SIGMETRICS conference* June 2016.
- tutorial "Networked Public Goods", *ACM SIGMETRICS conference* June 2016.
- tutorial "Opportunistic Mobile Networks", *Summer School RESCOM*, June 2007.

SERVICE

Organizing and Ediorial roles

- Elected to ACM SIGMETRICS Board of Directors (Sep. 2015-present)

- Program Chair, ACM SIGMETRICS 2017
- General Chair, Conference DTL 2016
- Research Track Chair, Conference DTL 2015
- Program Committee Chair, Conference ACM CoNEXT 2014
- Student Travel Grant Chair, Conference ACM COSN 2014
- Student Travel Grant Chair, Conference ACM SIGCOMM 2013
- Workshop Chair, Conference ACM CoNEXT 2012
- Program Chair, Workshop ACM FOMC 2011
- Student Activity Chair, Conference ACM Sigmetrics 2010
- Chair of Student Shadow Program Committee, Conference ACM Sigmetrics 2010
- Program Chair, Workshop Algotel 2009
- Chair of Student Shadow Program Committee, Conference ACM CoNEXT 2008
- Program Chair, Workshop NET-COOP 2008
- Founder, with R. Texeira and A. Soule, of `www.paris-networking.org` (380 members).

- Area editor, IEEE Transactions on Mobile Computing (Sep. 2010-present)

- Area editor, ACM Mobile Computing and Communication Review (Sep. 2009-Jan. 2015)
- Area editor, ACM Computer Communication Review (Sep. 2009-Sep. 2015)

As committee member

- ACM SIGMETRICS Rising Star Award 2015
- Program Committee, Conference IFIP Performance: 2015
- Program Committee, Conference Netmob: 2015, 2013
- Program Committee, Conference AAAI ICWSM: 2015
- Program Committee, Conference ACM SIGCOMM: 2014, 2011, 2010, 2009
- Program Committee, Conference ACM WSDM: 2014, 2013
- Program Committee, Conference ACM COSN: 2013
- Program Committee, Conference ACM WWW: 2013
- Program Committee, Conference ACM CoNEXT: 2012, 2011, 2010, 2009, 2008, 2007, 2006
- Program Committee, Conference ACM MobiCom: 2012, 2009
- Program Committee, Conference ACM SIGMETRICS 2012, 2011, 2010
- Program Committee, Conference USENIX/ACM IMC 2011
- Program Committee, Conference IEEE ISIT 2011
- Program Committee, Conference ACM MobiHoc 2010
- Program Committee, Conference IEEE Infocom 2009, 2008, 2007

PUBLICATIONS

Peer-Reviewed Conferences

31. M. Gabielkov, A. Ramachandran, A. Chaintreau, and A. Legout, Social Clicks: What and Who Gets Read on Twitter? in *Proceedings of ACM SIGMETRICS*, June 2016. (12 pages).

30. Y. Zeng, A. Chaintreau, D. Towsley, and C. Xia, A Necessary and Sufficient Condition for Throughput Scalability of Fork and Join Networks with Blocking in *Proceedings of ACM SIGMETRICS*, June 2016. (12 pages).

29. C. Riederer, Y. Kim, A. Chaintreau, N. Korula and S. Lattanzi, Linking Users Across Domains with Location Data: Theory and Validation in *Proceedings of ACM WWW*, Apr. 2016. (12 pages).

28. C. J. Riederer, S. Zimmeck, C. Phanord, A. Chaintreau, and S. M. Bellovin, I don't have a photograph, but you can have my footprints.: Revealing the Demographics of Location Data, in *Proceedings of ACM COSN 2015*, Nov. 2015. (12 pages).

27. A. Ramachandran and A. Chaintreau, Who Contributes to the Knowledge Sharing Economy? pp. 3748. in *Proceedings of ACM COSN 2015*, Nov. 2015. (12 pages).

26. M. Lecuyer, R. Spahn, Y. Spiliopolous, A. Chaintreau, R. Geambasu, and D. Hsu, Sunlight: Fine-grained Targeting Detection at Scale with Statistical Confidence, in *Proceedings of ACM CCS 2015*, Oct. 2015. (13 pages).

25. A. Ramachandran, A. Chaintreau. "I knew they clicked when I saw them with their friends" In *Proceedings of ACM COSN 2014*, Oct. 2014. (6 pages)

24. M. Lécuyer, G. Ducoffe, F. Lan, A. Papancea, T. Petsios, R. Spahn, A. Chaintreau, and R. Geambasu XRay: Enhancing the Webs Transparency with Differential Correlation In *Proceedings of USENIX Security*, Aug. 2014. (16 pages)

23. A. May, A. Chaintreau, N. Korula, S. Lattanzi. Filter & Follow: Do Social Media Encourage Efficient News Curation? In *Proceedings of ACM SIGMETRICS*, June 2014. (13 pages)

22. P. Gill, V. Erramilli, A. Chaintreau, B. Krishnamurthy, K. Papagiannaki, and P. Rodriguez. Follow the Money: Understanding Economics of Online Aggregation and Advertising In *Proceedings of ACM SIGCOMM USENIX IMC,*, Oct. 2013. (7 pages) (see Distinctions).

21. N. Ristanovic, J.-Y. Le Boudec, A. Chaintreau and V. Erramilli. Energy Efficient Offloading of 3G Networks In *Proceedings of IEEE MASS*, Oct. 2011. (10 pages) (see Distinctions).

20. S. Isaacman, S. Ioannidis, A. Chaintreau and M. Martonosi. Distributed Rating Prediction in User Generated Content Streams In *Proceedings of ACM RecSys*, Oct. 2011. (8 pages)

19. S. Isaacman, S. Ioannidis, A. Chaintreau and M. Martonosi. Distributed Collaborative Filtering Over Social Networks In *Proceedings of Allerton*, Sep. 2011. (invited paper) (6 pages)

18. V. Misra, S. Ioannidis, A. Chaintreau and L. Massoulie. Incentivizing Peer-Assisted Services: A Fluid Shapley Value Approach. In *Proceedings of ACM SIGMETRICS*, June 2010. (12 pages)

17. S. Ioannidis, L. Massoulie and A. Chaintreau. Distributed Caching over Heterogeneous Mobile Networks. In *Proceedings of ACM SIGMETRICS*, June 2010. (12 pages)

16. J. Reich and A. Chaintreau. The Age of Impatience: Optimal Replication Schemes for Opportunistic Networks. In *Proceedings of ACM CoNEXT*, Dec. 2009. (12 pages)

15. J. Reich and A. Chaintreau. Replication Schemes for Opportunistic Networks with Impatient Users. In *Proceedings of Allerton*, Sep. 2009. (invited paper) (6 pages)

14. A. Chaintreau J.-Y. Le Boudec and N. Ristanovic. The Age of Gossip: Spatial Mean Field Regime. In *Proceedings of ACM SIGMETRICS*, June 2009. (12 pages) (see Distinctions).

13. S. Ioannidis, A. Chaintreau and L. Massoulié, Optimal and Scalable Distribution of Content Updates over a Mobile Social Network. In *Proceedings of IEEE INFOCOM*, Apr. 2009. (9 pages)

12. A. Chaintreau, P. Fraigniaud, and E. Lebhar. Networks become navigable as people move and forget. In *Proceedings of ICALP*, July 2008. (12 pages)

11. A. Chaintreau. Sharpness: a tight condition for throughput scalability. In *Proceedings of SIROCCO*, June 2008. (15 pages)

10. V. Erramilli, A. Chaintreau, M. Crovella, and C. Diot. Delegation forwarding. In *Proceedings of ACM MobiHoc*, May 2008. (9 pages)

9. A. Chaintreau and L. Massoulié. Phase transition in opportunistic mobile networks. In *Proceedings of IEEE International Zurich Seminar on Communication*, Mar. 2008. (invited paper) (4 pages)

8. A. Chaintreau, A. Mtibaa, L. Massoulié, and C. Diot. The Diameter of opportunistic mobile networks. In *Proceedings of ACM CoNEXT*, Dec. 2007. (12 pages) (see Distinctions).

7. V. Erramilli, A. Chaintreau, M. Crovella, and C. Diot. Diversity of forwarding paths in pocket switched networks. In *Proceedings of ACM/USENIX Internet Measurement Conference*, Oct. 2007. (13 pages)

6. B. Kauffmann, F. Baccelli, A. Chaintreau, V. Mhatre, D. Papagiannaki, and C. Diot. Measurement-based self organization of interfering 802.11 wireless access networks. In *Proceedings of IEEE INFOCOM*, Apr. 2007. (9 pages)

5. A. Chaintreau, P. Hui, J. Scott, R. Gass, J. Crowcroft, and C. Diot. Impact of human mobility on opportunistic forwarding algorithms. In *Proceedings of IEEE INFOCOM*, Apr. 2006. (13 pages)

4. F. Baccelli, A. Chaintreau, Z. Liu, and A. Riabov. The one-to-many TCP overlay: A scalable and reliable multicast architecture. In *Proceedings of IEEE INFOCOM*, May 2005. (12 pages)

3. F. Baccelli, A. Chaintreau, D. De Vleeschauwer, and D. R. McDonald. A Mean-Field Analysis of Short Lived Interacting TCP Flows In *Proceedings of ACM SIGMETRICS*, June 2004. (12 pages)

2. F. Baccelli, A. Chaintreau, Z. Liu, A. Riabov, and S. Sahu. Scalability of reliable group communication using overlays. In *Proceedings of IEEE INFOCOM*, Apr. 2004. (12 pages)

1. A. Chaintreau, F. Baccelli, and C. Diot. Impact of window-flow control on the throughput of multicast groups. In *Proceedings of IEEE INFOCOM* Apr. 2001. (10 pages) (see Distinctions).

Journals

6. S. Ioannidis, L. Massoulie and A. Chaintreau. Distributed Caching in Heterogeneous Mobile Networks *Queueing Systems and Applications*, vol. 72 n. 4, pp. 279-309 Dec. 2012. (31 pages)

5. J. He, A. Chaintreau and C. Diot. A performance evaluation of scalable live video streaming with nano data centers. *Elsevier Computer Networks*, volume 53 issue 2, 2008. (15 pages)

4. A. Chaintreau, P. Hui, J. Scott, R. Gass, J. Crowcroft, and C. Diot. Impact of human mobility on opportunistic forwarding algorithms. *IEEE Trans. Mob. Comp.*, 6(6):606–620, 2007. (15 pages)

3. F. Baccelli, A. Chaintreau, D. De Vleeschauwer, and D. R. McDonald. HTTP turbulence. *AIMS Networks and Heterogeneous Media*, 1(1):1–40, 2006. (40 pages)

2. A. Chaintreau and D. De Vleeschauwer. A closed form formula for long-lived TCP connections throughput. *Perform. Eval.*, 49(1-4):57–76, 2002. (20 pages)

1. A. Chaintreau, F. Baccelli, and C. Diot. Impact of TCP-like congestion control on the throughput of multicast groups. *IEEE/ACM Trans. Netw.*, 10(4):500–512, 2002. (13 pages)

Peer-Reviewed Workshops (excluding those superseded by later publications)

15. L. Wang, A. Ramachandran, and A. Chaintreau, Measuring Click and Share Dynamics on Social Media: A Reproducible and Validated Approach, *Proceedings of AAAI ICWSM Workshop on News and Public Opinion*, May 2016.

14. C. J. Riederer and A. Chaintreau, Scaling Up the Census with Social Media, *Proceedings of AAAI ICWSM Workshop on The Social Media and Demographic Research Workshop*, May 2016.

13. C. Riederer, D. Echikson, S. Huang, and A. Chaintreau, FindYou: A Personal Location Privacy Auditing Tool (demo), *Proceedings of ACM WWW*, Apr. 2016.

12. A. Ramachandran and A. Chaintreau, The Network Effect of Privacy Choices, *Proceedings of ACM NETECON*, Nov. 2015.

11. L. Navarro, M. Gabielkov, M. L. Tucker, and A. Chaintreau, Zero-Knowledge Transparency: Safe Audit Tools for End Users (short talk),*Annual Conference of Data Transparency Lab*, Nov. 2015.

10. G. Ducoffe, M. Lcuyer, A. Chaintreau, and R. Geambasu, Web Transparency for Complex Targeting: Algorithms, Limits, and Tradeoffs (poster), *Proceedings of the ACM SIGMETRICS*, June 2015.

9. C. Riederer, A. Chaintreau, J. Cahan, and V. Erramilli The Place (and Price) Is Right: An Economic Solution to Location Privacy, In *Proceedings of the 12th Workshop on on Privacy in the Electronic Society (WPES)*, Nov. 2013.

8. G. Ducoffe, D. Mazauric, and A. Chaintreau, De la difficulté de garder ses amis (quand on a des ennemis) !, *Proceedings of Algotel*, June 2013. (see Distinctions).

7. K. Biscuitwala, W. Bult, M. Lécuyer, M. Ross, A. Chaintreau, M. Lam, C. Haseman and S. McGregor, Weaving a safe web for news, In *Proceedings of ACM Workshop on Social News on the Web (SNOW)*, May 2013.

6. Christopher Riederer, Vijay Erramilli, Augustin Chaintreau, Balachander Krishnamurty and Pablo Rodriguez, For Sale: Your data; By: You, In *Proceedings of ACM SIGCOMM Workshop on Hot Topics in Networks (HotNets-X)*, Nov. 2011.

5. K.-W. Kwong, A. Chaintreau, and R. Guerin. Quantifying content consistency improvements through opportunistic contacts. In *Proceedings of ACM Workshop on Challenged Networks (CHANTS)*, Sep. 2009.

4. S. Ioannidis and A. Chaintreau. On the strength of weak ties in mobile social networks. In *Proceedings of the Second ACM Workshop on Social Network Systems (SNS)*, Mar. 2009.

3. A. Chaintreau, P. Fraigniaud, and E. Lebhar. Opportunistic spatial gossip over mobile social networks. In *Proceedings of ACM SIGCOMM Workshop on Online Social Network (WOSN)*, Aug. 2008.

2. A. Mtibaa, A. Chaintreau, J. LeBrun, E. Oliver, A-K. Pietilainen, and C. Diot. Are you moved by your social networks application? In *Proceedings of ACM SIGCOMM Workshop on Online Social Network (WOSN)*, Aug. 2008.

1. P. Hui, A. Chaintreau, J. Scott, R. Gass, J. Crowcroft, and C. Diot. Pocket switched networks and the consequences of human mobility in conference environments. In *Proceedings of ACM SIGCOMM first workshop on delay tolerant networking and related topics (WDTN)*, 2005.

FUNDING

5. 2013-2018: PI for National Science Foundation CAREER Award CNS 1254035 "Banalytics: Behavioral Network Analytics for Data Transparency" (total $499,998, my share: $499,998)

4. 2012-2013: co-PI for Brown Institute Magic Grant for "Dispatch: a publishing tool for conflict reporting". (total $266,165, my share: $108,998)

3. 2011-2012: co-PI for National Science Foundation Award ICES #1139915 "Social Information Dissemination: A Market Based Approach" (total $249,993, my share: $83,331)

2. 2009-2010: PI for PROSE, a 3-year basic research project funded by Agence Nationale de la Recherche (four universities, one industry lab and one start-up).

1. 2006-2010: co-PI for HAGGLE, a 4-year basic research project funded by European Union's Framework Programme 6.

INVENTIONS

Patents Granted

1. *Method and apparatus for group communication with end-to-end reliability*, Z. Liu, F. Baccelli, A. Chaintreau, A. Riabov

   US 7,355,975 (2008), KR100946108 (2010), CA2564363 (2010), EP 1747644 B1 (2013), JP2007535879 (filed)

2. *Apparatus for scalable reliable group communication*, F. Baccelli, A. Chaintreau, Z. Liu, A. Riabov, S. Sahu

   US 7,710,881 (2010)

3. *Multimedia content delivery method and system*, A. Boudani, A. Chaintreau, M.-L. Champel, C. Diot, P. Houeix, C. Neumann, A. Soule, K. Suh

   US 7,680,894 (2010), EP 1972092 A1 (filed)

4. *Device and method for controlling dissemination of data by transfer of sets of instructions between peers having wireless communication capacities,* A. Chaintreau, J. Reich

   EP 2252035 B1 (2012), US 8,924,474 (2014)

5. *Device and method for controlling dissemination of contents between peers having wireless communication capacities, depending on impatience reaction functions,* A. Chaintreau, J. Reich

   EP 2249545 B1 (Mar 14, 2012), US 8,856,327 (2014)

6. *Representation of a delay path in mobile networks*, A. Chaintreau

   EP 2020127 A2 (Feb 4, 2009), US 8,509,084 (2013)

7. *Device and method for controlling dissemination of contents between peers having wireless communication capacities, depending on vote vectors*, A. Chaintreau, S. Ioannidis, L. Massoulie

   EP 2372976 A1 (Oct 5, 2011), US 8,706,831 (2014)

Applications filed

1. *Method and device for managing information of social type and for opportunistic forwarding,* A. Chaintreau, C. Diot, A. Mtibaa,

   EP 2178038 A1 (Apr 21, 2010), US 20100064006 A1 (Mar 11, 2010)

2. *Devices, system and method for computing an optimal n-dimensional vector of content injection rates for user communication equipments,* A. Chaintreau, S. Ioannidis, L. Massoulie

   EP 2194690 A1 (Jun 9, 2010)

3. *Classifying content,* A. Chaintreau, S. Ioannidis, S. Isaacman

   EP 2434723 A1 (Mar 28, 2012)

TEACHING

- Fall 2016:	COMS 4995: Introduction to Social Networks.
	Enrollment: TBA, Median Student Evaluation: TBA
- Spring 2015:	CSEE 4119: Computer Networks.
	Enrollment: 140, Median Student Evaluation: 4.06/5
- Fall 2014:	COMS 6998-2: Social Networks.
	Enrollment: 39, Median Student Evaluation: 4.19/5
- Spring 2014:	COMS 4119: Computer Networks.
	Enrollment: 104, Median Student Evaluation: 4.25/5
- Fall 2013:	COMS 6998-1: Social Network Economics.
	Enrollment: 20, Median Student Evaluation: 4.09/5
- Spring 2013:	CSEE 4119: Computer Networks.
	Enrollment: 66, Median Student Evaluation: 4.29/5
- Fall 2012:	COMS 4995-1: Introduction to Social Networks.
	Enrollment: 23, Median Student Evaluation: 3.83/5
- Spring 2012:	CSEE 4119: Computer Networks.
	Enrollment: 88, Median Student Evaluation: 3.95/5
- Fall 2011:	COMS 4995-1: Introduction to social networks.
	Enrollment: 10, Median Student Evaluation: 4.71/5
- Spring 2011:	COMS 6998-2: Analysis of social information networks.
	Enrollment: 12, Median Student Evaluation: not available
- Spring 2010:	Ecole Normale Supérieure, Paris, France.
	Computer Networks (with F. Baccellli).
- Spring 2007:	Ecole Normale Supérieure, Paris, France.
	Computer Networks (with F. Baccellli, M. Lelarge).
- Fall 2001:	Chennai Mathematical Institute, Chennai, India.
	Introductory undergraduate course on probability.

GRADUATE SUPERVISIONS	- Ana Stoica *B.S.* Princeton U.	Sep. 2016-present	Ph.D student
	- Max Lee Tucker *B.S.* Carnegie Mellon U.	Sep. 2014-present	Ph.D student
		NSF IGERT Fellowship 2014-2016, Grossman Scholarship 2014-2015 Brown Institute Magic Grant Award 2014-2015	
	- Arthi Ramachandran *B.S.* Princeton U.	Sep. 2013-present	Ph.D student
		NSF Graduate Research Fellowship, Microsoft Graduate Women's Scholarship	
	- Mathias Lécuyer *B.S.* Ecole Polytechnique	Sep. 2012-present	Ph.D student
		Brown Institute Magic Grant Award 2012-2013	
	- Christopher Riederer *B.S.* Yale U.	Sep. 2011-present	Ph.D student
		Brown Institute Fellowship 2012-213	
	- Avner May *B.S.* Harvard U.	Sep. 2011-Sep. 2013	Ph.D student
		Departmental Chair Fellowship 2011-2012	
	- Lucy Wang *B.S.* Columbia U.	Jan. 2016-present	Master student

VISITING STUDENT & INTERNS	- Maksym Gabielkov	May 2015-Dec. 2015	INRIA
	- Dimitrios Milioris	Sep. 2014-Dec. 2014	Ecole Polytechnique
	- Francis Lan	Apr. 2014-Aug. 2014	Ecole Polytechnique
	- Ken Chanseau	Apr. 2014-Aug. 2014	Ecole Normale Supérieure, Paris
	- Guillaume Ducoffe	June 2012-Sep. 2012, Mar. 2014-Aug. 2014,	Ecole Normale Supérieure, Paris
	- Nikodin Ristanovic	Mar. 2010-July 2010	EPFL
	- Sibren Isaacman	Sep. 2009-Jan. 2010	Princeton U.
	- Josh Reich	Oct. 2008-Mar. 2009	Columbia U. now NSF Postdoc at Princeton
	- Kin-Wah Kwong	June 2008-Oct. 2008	U. Pennsylvania now at Cisco
	- Stratis Ioannidis	Nov. 2007-Mar. 2008	U. of Toronto now researcher at Technicolor
		won the student research competition at **ACM Mobicom** 2008 won 2nd prize (graduate) at the 2009 **ACM SRC Grand Finals**	
	- Vijay Erramilli	May 2006-Oct. 2006	Boston U. now at Telefonica Labs
	- Jiayue He	June 2006-Nov. 2006	Princeton U. now at McKinsey

POST GRADUATE SUPERVISIONS	- Dorian Mazauric *Ph.D* INRIA	Dec. 2011-Dec. 2012	postdoctoral researcher, permanent researcher, INRIA

Under Graduate Supervisions			
	- Yunsung Kim	Columbia U.	July 2014-present Egleston Scholar Bashkow Award for Outstanding Research Finalist for CRA Undergraduate Award
	- Daniel Echikson	Columbia U.	July 2015-Aug. 2015
	- Stephanie Huang	Columbia U.	July 2015-Aug. 2015
	- Coralie Phanord	Dartmouth C.	June 2013-Aug. 2013
	- Jake Cahan	Brown U.	June 2013-Aug. 2013

PH.D THESIS COMMITTEE

- Sebastian Zimmeck   Columbia University, CS Sep. 2016
Principal advisors: S. Bellovin
- Jelena Marasevic   Columbia University, EE July 2016
Principal advisors: G. Zussman
- Zeinab Abbassi   Columbia University, CS Feb. 2016
Principal advisors: Gil Zussman
- Evangelia Skiani   Columbia University, EE June 2015
Principal advisors: Gil Zussman
- Mohamed Kafsi   Ecole Polytechnique Fédérale de Lausanne, May 2015
Principal advisors: Matthias Grossglauser & Patrick Thiran
- Berk Birand   Columbia University, EE June 2014
Principal advisor: Gil Zussman
- Farid Movahedi Naini   Ecole Polytechnique Fédérale de Lausanne, Mar. 2014
Principal advisors: Martin Vetterli & Patrick Thiran
- Swapneel Seth   Columbia University, CS, Dec. 2013
Principal advisor: Gail Kaiser
- Maria Gorlatova   Columbia University, EE, Apr. 2013
Principal advisor: Gil Zussman
- Ionut Trestian   Northwestern University, July 2012
Principal advisor: Aleksandar Kuzmanovic
- Nikodin Ristanovic   Ecole Polytechnique Fédérale de Lausanne, June 2012
Principal advisor: Jean-Yves Le Boudec
- Joe Wenjie Wang   Princeton University, Jan. 2012
Principal advisors: Mung Chiang and Jennifer Rexford
- Dorian Mazauric   INRIA and Université de Nice, Nov. 2011
Principal advisors: Jean Claude Bermond and Philippe Nain
- Bert Huang   Columbia University, CS July 2011
Principal advisor: Tony Jebara
- Blake Shaw   Columbia University, CS July 2011
Principal advisor: Tony Jebara