Chadi Barakat

PhD and HDR in Computer Science
Master of Electrical and Electronic Engineering

Birth	: June 19th, 1974, Saïda (Lebanon)
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1. Experience

- 01/24 - present: Research Director 1^{st} class (DR1), Diana project-team, Inria centre at Université Côte d'Azur, France.
- 10/18 - 12/23: Research Director 2^{nd} class (DR2), Diana project-team, Inria centre at Université Côte d'Azur, France.
- 03/04 - 09/18: Associate Researcher 1^{st} class (CR1), Planète and Diana project-teams, Inria Sophia Antipolis - Méditerranée, France.
- 03/04 - 08/04: Visiting Faculty, Intel Research Cambridge, UK.
- 03/02 - 02/04: Associate Researcher 2^{nd} class, Planète Project-Team, Inria Sophia Antipolis - Méditerranée, France.
- 05/01 - 03/02: Postdoctoral fellow, LCA - FIC - EPFL, Lausanne, Switzerland.
- 09/98 - 05/01: PhD candidate, Mistral project-team, Inria, France.
- 03/98 - 07/98: Intern, networking department, ENST-Paris, France.

2. Degrees

- January 2009: Habilitation à Diriger des Recherches from the University of Nice Sophia Antipolis, France. Title: Solutions efficaces pour la métrologie de l'Internet.
- April 2001: PhD degree in Computer Sciences from the University of Nice Sophia Antipolis, France. Title: Performance evaluation of TCP congestion control.
- June 1998: DEA (Diplôme d'Études Approfondies, the french equivalent of the Master degree) in Networking and Distributed Systems, University of Nice Sophia-Antipolis, France.
- July 1997: Master of Electrical and Electronic Engineering, Lebanese University, Beirut, Lebanon.

3. Research interests Internet measurements and traffic analysis, user quality of experience and network transparency, new network architectures (5G and beyond, Information-Centric Networking and Software-Defined Networking), performance evaluation of computer networks.

4. Awards and distinctions

- Senior member of the IEEE (2010) and the ACM (2018).
- Second best PhD thesis in Computer Science defended in 2021 at University Côte d'Azur for my student Othmane Belmoukadam.
- Best paper award for our paper "From Encrypted Video Traces to Viewport Classification", 16th International Conference on Network and Service Management (CNSM), Virtual Conference, November 2020.
- Best student paper award for our paper "On the Cost of Measuring Traffic in a Virtualized Environment", 7th IEEE International Conference on Cloud Networking (CloudNet), Tokyo, October 2018.
- Best paper award for our paper "Optimal Buffer Management Policies for Delay Tolerant Networks", 5th Annual IEEE Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON), San Francisco, June 2008.
- Best PhD student paper award for my paper "On ACK filtering on a slow reverse channel", first international workshop on Quality of future Internet Services (QofIS), Berlin, September 2000.
- Hariri foundation award, top-100 students funded by the foundation in Lebanon and abroad, five times from 1993 to 1997.

5. Research projects

Current projects

- Monitoring plane for mobile cellular networks. Supported by the PEPR national project on 5G networks and networks of the future.
- Monitoring of virtualized networks with application to reproducible network experimentation. Supported by PEPR 5G.
- Geolocation assessment of mobile network performance, in collaboration with YDATA. Supported by an ANRT CIFRE grant.
- WEMON: Network monitoring and troubleshooting from within the browser. Supported by the Academy of Excellence "Networks, Information and Digital Society" of Université Côte d'Azur.
- ACQUA: Monitoring Internet access and Quality of User Experience. Previously supported by Inria ADT ACQUA, Inria IPL BetterNet and ANR BottleNet.

Past projects

- Offloading mobile networks by content caching in vehicles. Collaboration with Eurecom supported by Labex UCN@SOPHIA.
- ChkDiff: Checking Traffic Differentiation at Internet access. Collaboration with I3S supported by Labex UCN@SOPHIA.
- Content-centric communications in mobile wireless networks. Supported by the ITEA Expeshare and the ANR CONNECT projects.
- Adaptive traffic sampling. Supported by the FP7 ECODE project.
- Internet traffic classification and host profiling. Supported by the ANR CMON project.
- BitHoc: Content sharing in mobile wireless networks. Supported by the ITEA Expeshare project.
- Understanding the properties of the BitTorrent Overlay. Supported by the ANR OSCAR project.
- Scalable solutions for data collection. Supported by Hitachi Europe.
- Performance evaluation of congestion control in the Internet.

6. Professional activities

Journals

- Associate editor for the Computer Networks journal (2012-present).
- Guest editor for a JSAC special on Sampling the Internet: Techniques and Applications (2006).
- Area editor for ACM Computer Communication Review (CCR), 2005-2010.
- Regular referee for main international journals: Transactions on Networking, Transactions on Multimedia, Transactions on Wireless Communications, JSAC, Performance Evaluation, IEEE Networks, Communication Magazine, ACM CCR, Computer Networks, Computer Communications, ...

Conferences

- General Co-Chair for ACM IMC 2022, Nice, France.
- Workshop Co-Chair for ACM CoNEXT 2018, Greece.
- Poster Co-Chair for ACM Internet Measurement Conference 2017, London.
- Publicity Co-Chair for ACM SIGCOMM 2015, London.
- General Co-Chair for ACM CoNEXT 2012, Nice.
- Co-organizer of the francophone summer school ResCom 2007.
- Steering committee member for PAM Workshop (Passive and Active Measurement), 2004-2007.
- Program Committee Co-Chair for the Sampling 2005 Workshop (Paris).
- General chair for WiOpt 2005 Workshops (Riva Del Garda, Italy).
- General chair for PAM 2004 (Juan-les-Pins, France).
- Technical Program Committee member for IEEE INFOCOM conference (2004, 2005, 2009, 2010, 2011), ACM Internet Measurement Conference (IMC) (2005, 2010, 2017, 2024), ACM CoNEXT conference (2006, 2011, 2016), Passive and Active Measurement (PAM) conference (2004, 2005, 2013, 2016, 2022), Network Traffic Measurement and Analysis (TMA) Conference (2013, 2015, 2019, 2020, 2021, 2022, 2023, 2024), IEEE ICNP conference (2002, 2005), IEEE SECON conference (2007), IFIP Conference on Network and Service Management (CNSM) (2012, 2019, 2020, 2021), Mediterranean Communication and Computer Networking Conference (MedComNet) (2021, 2022, 2023, 2024), International Teletraffic Congress (ITC) (2009, 2017, 2021, 2022, 2023), ACM SIGCOMM Posters and Demos (2015, 2018), ACM MECOMM Workshop (2018), ACM MobiArch Workshop (2023), MaLeNe Workshop (2021), NetLearn Workshop (2020), IEEE Symposium on Measurements and Networking M&N (2017, 2019), AINTEC (2016), IEEE ICCCN (2011), IEEE Comsnets (2010), NSTools (2007, 2009), Algotel (2009, 2016), BroadNets (2008), WNS2 (2008), WinMee (2006, 2008), PFLDnet (2008), WWIC (2006, 2007), IEEE/ACM IWQoS (2006), IFIP WONS (2005, 2006), ASWN (2004), GI&NGN symposium at IEEE Globecom (2004), ASIAN (2002).
- Session chair at ACM IMC 2017 (London), ICCIT 2013 (Beirut), IMC 2011 (Berlin), IMC 2005 (Berkeley), WiOpt 2003 (Sophia Antipolis), ICNP 2002 (Paris).

Inria

- Scientific correspondent and referee for international affairs at Inria Centre at Université Côte d'Azur (2011-present).
- Member of the working group International Affairs of the Conseil d'Orientation Scientifique et Technologique (COST-GTRI) at Inria (2011-2019).

- Member of the CUMIR committee at Inria Sophia-Antipolis (Commission des Utilisateurs des Moyens Informatiques), 2010 - 2014.
- Member of the evaluation board of the LIRIMA Laboratory, September 2014.
- Jury member for the hiring of two Chargés des Relations Internationales in 2012 and one Chargé d'Affaires Juridiques in 2013.
- (Co)Organizer of Mistral seminars (1999-2001), of Planète seminars (2003 - 2012), of "seminar croisé Réseau" (October 2003) and of Inria ComB evaluation seminar (November 2007).

Other administrations

- Member of the organizing committee for the Forum Numerica seminars of University Côte d'Azur (2018 -).
- Co-organizer of the Mediterranean Students Days @ Campus SophiaTech (2013-present). All details on this event can be found at http://univ-cotedazur.fr/events/meddays.
- Member of the directory board for the Networking Master at the University of Nice Sophia Antipolis (2005-2008), responsible of the internships for the same Master (2005-2008), and external member in the hiring committee at the computer sciences department of the University of Nice Sophia Antipolis (2005-2008).
- Member of the E-next European Network of Excellence - 2003-2006.
- Expert for the ANR-DGA ASTRID program (2013).
- Expert for two companies at Sophia Antipolis for their Crédit D'Impôt Recherche.
- Expert for the review of four European running projects and three panels.

7. Talks

Invited talks

- Bridging the gap between network measurements and quality of experience: the video streaming case, Workshop on Systems, Inria Rennes, October 2021.
- From network-level measurements to quality of experience: Estimating the quality of Internet applications with ACQUA,
  (i) Journée du Conseil Scientifique de l'Afnic, Paris, July 2015.
  (i) Panel, Inria Telecom Industry Day, Paris, November 2014.
  (ii) Metroscope Day, Paris, October 2014.
- Traffic differentiation at the Internet access, Journée Labex and Com4Innov, Sophia Antipolis, September 2015.
- Modern HTTP traffic: One day in the life of a university campus network, Metroscope Day, Paris, July 2013.
- Minimizing Bandwidth on Peering Links with Deflection in Named Data Networking, ICCIT conference, Lebanon, June 2013.
- Scalable measurements of Internet acces and traffic, Metroscope Day, Paris, April 2012.
- Message Drop and Scheduling in DTNs: Theory and Practice,
  (i) Ecole francophone CFIP, Sainte Maxime, May 2011,
  (ii) Univ Calitornia Santa Cruz, July 2010,
  (iii) Brunel Univ, London, April 2008.

- Monitoring of Internet traffic and applications,
  (i) ETH, Zurich, October 2009,
  (ii) Inria Alcatel Lucent Workshop, June 2009.
- Multilevel approach for the modeling of large TCP/IP networks, COST 285 final symposium, Surrey UK, 2007.
- Issues related to the modelling of the TCP protocol,
  (i) E-next school, Louvain-La-Neuve, November 2005,
  (ii) Ecole ING (Internet Nouvelle Génération) du CNRS, Porquerolles, May 2003.
- Scalable solutions for information collection, KTH, Stockholm, September 2005.
- Internet topology inference, Asian school, Bangkok, 2005.
- Ranking flows from sampled traffic, MIT, UMASS and Boston University, October 2004.
- Five seminars on different topics at ENSI, Tunis, 2003 - 2007.
- Analysis of TCP over wireless links implementing link-level hybrid FEC/ARQ-SR for error recovery, Intel Research Cambridge, 2004.
- Performance Analysis of Finite Load Sources in 802.11b Multirate Environments, Ecole Normale Supérieure, Paris, 2003.
- On TCP performance in heterogeneous networks, Summer Research Institute, EPFL, Lausanne, July 2002.
- Performance evaluation of TCP congestion control, IBM Zurich, 2001.

Paper presentation at the following international conferences: IFIP Networking 2014 (Trondheim), ACM MSWIM 2013 (Barcelona), ACM IMC 2009 (Chicago), IEEE SECON 2008 (San Francisco), ACM CoNEXT 2006 (Lisboa), ACM CoNEXT 2005 (Toulouse), WiOpt 2003 (Paris), PFLDnet 2003 (Geneva), ACM IMW 2002 (Marseille), ICN 2001 (Colmar), IEEE INFOCOM 2001 (Alaska), QofIS 2000 (Berlin), ACM SIGCOMM 2000 (Stockholm), ACM SIGMETRICS 2000 (Santa Clara), IFIP NETWORKING 2000 (Paris), IEEE GLOBECOM 1999 (Rio).

8. Collaborative projects

- CIFRE grant with YDATA on geolocation assessment of mobile network performance (2021-2024).
- Inria Project Lab BetterNet (2016-2020).
- ANR BottleNet French project led by Inria (2016-2021).
- ANR CMON French project led by Thomson (2009-2012).
- ECODE STREP European project led by Alcatel-Lucent Belgium (2009-2012).
- Expeshare ITEA European project involving over 40 partners (Nokia, Philips, VTT, Siemens, Telefonica, etc) (2007-2009).
- RNRT OSCAR French project led by FranceTelecom and involving Mitsubishi (2006-2008).
- A visit of six months to Intel Research Cambridge (2004).
- A contract of one year (2005) with Alcatel Marcoussis on Internet Topology Inference.
- TRANSAT: ESA Project led by Alcatel space on improving satellite access networks (2002-2004).
- TICP: Project with Hitachi on collecting information in wide area networks (2002).
- Collaboration with Sprint ATL and EPFL on traffic modeling and network dimensioning (2001-2002).

9. Software

- ACQUA: AppliCation to estimate and predict Quality of User experience at Internet Access.
- CEDO: Content-Centric Dissemination Algorithm for Delay-Tolerant Networks.
- MobiTrade: Enables content trading between wireless devices.
- MonLab: A platform for network-wide traffic emulation, sampling and monitoring.
- BitHoc: Enables file sharing over wireless ad hoc networks.
- TICP: Enables data collection in large networks.
- A set of scripts for TCP analysis in the ns-2 simulator.

10. Teaching activities

Open courses

- Evolving Internet, 12 hours, Master 2 Ubinet, Université Côte d'Azur, 2008-present.
- Internet Measurement and New Architectures, 9 hours, Master 2 Ubinet, Université Côte d'Azur, 2008-present.
- Voice over IP and adaptive multimedia applications, 6 hours, Master ESTEL (ex-TSM), Université Côte d'Azur, 2007-present.
- Computer Networks, 12 hours, Master 1 in Computer Science, Université Côte d'Azur, 2018-present.
- Internet of the Future, 12 hours, Master 1 in Computer Science, Université Côte d'Azur, 2018-present.

Past courses

- Algorithms for Networks, 18 hours, Master 1 International in Computer Science, University of Nice Sophia Antipolis, 2013-2018.
- Internet Measurement and Traffic Analysis,
  (i) Networking and Distributed Systems DEA at the University of Nice Sophia Antipolis, 15 hours, 2004-2007,
  (ii) Master RIM, ENSI, Tunis, 15 hours, 2003-2007,
  (iii) Open lecture, AIT Thailand, 15 hours, 2003 and 2005,
  (iv) Master Telecom ParisTech, 3 hours, 2009-2013,
  (iv) Open lecture, ETH, Zurich, 2 hours, 2009.
- Mobile Wireless Networking, 7 hours, Master RISM (ex-RTM), IUP Avignon, 2009-2015.
- Overview of Information Centric Networking, Master Telecom ParisTech, 3 hours, 2014.
- Voice over IP, 7 hours,
  (i) Ecole d'Ingénieur Internet, Marseille, 2003,
  (ii) Master RTM, IUP Avignon, 2008.
- TCP/IP architecture and protocols, 20 hours, Licence Professionnelle LPSIL, IUT of Nice, 2006-2008.
- Local area networks, 21 hours + 10 hours practical work, IUT of Sophia Antipolis, 2007-2012.
- Inference of Internet Topology, 7 hours, Master RTM, IUP Avignon, 2006-2008.
- TCP/IP architecture and protocols, 6 hours, Maîtrise Informatique, University of Nice Sophia Antipolis, 2003.

- Ns-2, the Network Simulator, 7 hours,
  (i) Networking and Distributed Systems DEA, University of Nice Sophia Antipolis, 2001-2003,
  (ii) Master RTM, IUP Avignon, 2008.
- Internet over Satellites, 6 hours, Networking and Distributed Systems DEA, University of Nice Sophia Antipolis, 2000.
- Classes on Performance Evaluation in Networking, 6 hours, Institut Eurecom, Sophia Antipolis, 2003.
- Classes on Networking, Doctoral School, DSC-EPFL, Lausanne, Switzerland, 2001.

11. Supervised Postdocs/Engineers

- *Sanaa Ghandi:* Postdoc from January 2024 to December 2024. Funded by Academy DS4H of Université Côte d'Azur. Research topics on network monitoring and troubleshooting from within the browser: a data-driven approach. Graduated from IMT Atlantique.
- *Giulio Grassi:* Postdoc from October 2018 to June 2020. Funded by Inria within the Project Lab BetterNet. Research topic on cross-data analysis for a better network monitoring and troubleshooting. Graduated from Pierre et Marie Curie University. Now with Cisco Systems France.
- *Thierry Spetebroot:* Expert Engineer from October 2015 to March 2018. Funded by Inria within ADT ACQUA. Implementation of the ACQUA Android Application. Graduated from Master Ubinet, France. Now with Amadeus.
- *Byungchul Park:* Postdoc from October 2012 to April 2014. Funded by Inria. Research topic on measurements for Content-Centric Networks. Graduated from POSTECH, Korea. Now with University of Toronto, Canada.
- *Damien Saucez:* Postdoc from October 2011 to April 2013. Funded by Inria. Co-supervised with Thierry Turletti. Research topic on Content-Centric Networking. Graduated from UCL-Belgium. Now with Inria.
- *Amir Krifa:* Expert Engineer from May 2008 to June 2011. Funded by the ITEA Expeshare and the FP7 ECODE projects. Graduated from ENSI-Tunis. Now Senior Manager Data Science at EY.
- *Roberto Cascella:* Postdoc from January 2009 to January 2011. Funded by ANR C'MON. Research topic on network troubleshooting by collaborative active monitoring. Graduated from the University of Trento. Now Senior Policy Manager at European Cyber Security Organisation (ECSO).
- *Thrasyvoulos Spyropoulos:* Postdoc from September 2006 to Aug 2007. Co-supervised with Thierry Turletti. Research topic on Delay Tolerant Networks. Graduated from USC. Now with Eurecom.
- *Anwar Al Hamra:* Postdoc from July 2006 to July 2007. Funded by the ANR OSCAR project. Co-supervised with Arnaud Legout. Research topic on the structure of P2P networks. Graduated from Eurecom. Now modeling engineer at the ministry of transport and communications, Doha, Qatar.

12. Supervised PhD students

- *Bernard Tamba Sandouno*: Co-supervised with Thierry Turletti and Walid Dabbous. Started in May 2021. Funded by ANRT CIFRE. Thesis title: Geolocation assessment model of mobile network performance.
- *Houssam ElBouanani*: Co-supervised with Thierry Turletti and Walid Dabbous. Started in December 2019. Graduated in March 2023. Funded by H2020 Fed4Fire+. Thesis title: Introducing Fidelity into Network Emulation.
- *Othmane Belmoukadam*: Started in October 2018. Graduated in September 2021. Funded by the University of Nice Sophia Antipolis and the Université Côte d'Azur. Thesis title: QoE aware content management in the Internet: caching and transport.

- *Imane Taibi*: Co-supervised with Gerardo Rubino and Yassine Hadjadj-Aoul. Started in November 2017. Graduated in September 2022. Funded by Inria Project Lab BetterNet. Thesis title: Web-based data driven network monitoring: from performance estimation to anomaly detection.
- *Karyna Gogunska*: Co-supervised with Guillaume Urvoy-Keller. Started in October 2016. Graduated in December 2019. Funded by the UCN@SOPHIA Labex. Thesis title: On the Cost of Measurements in Virtualized Networks.
- *Jawad Khokhar*: Started in September 2016. Graduated in October 2019. Funded by ANR BottleNet. Thesis title: Modeling QoE of Internet Applications by Controlled Experimentation and Machine Learning.
- *Luigi Vigneri*: Co-supervised with Thrasyvoulos Spyropoulos. Started in April 2014. Graduated in July 2017. Funded by the UCN@SOPHIA Labex. Thesis title: Vehicles as a Mobile Cloud: Leveraging mobility for content storage and dissemination.
- *Riccardo Ravaioli*: Co-supervised with Guillaume Urvoy-Keller. Started in October 2012. Graduated in July 2016. Funded by the UCN@SOPHIA Labex. Thesis title: Active and Passive Inference of Network Neutrality.
- *Amir Krifa*: Started in May 2008. Graduated in April 2012. Thesis title: Towards better content dissemination applications for Disruption Tolerant Networks.
- *Imed Lassoued*: Started in September 2008. Graduated in December 2011. Funded by the ECODE FP7 project. Thesis title: Adaptive Monitoring and Management of Internet Traffic.
- *Karim Sbai*: Co-supervised with Walid Dabbous. Started in June 2007. Graduated in October 2010. Funded by the Expeshare project. Thesis title: Architecture for data sharing in mobile wireless networks.
- *Mohamad Jaber*: Co-supervised with Philippe Nain. Started in October 2007. Graduated in October 2011. Funded by the French ministry and supported by the CMON ANR project. Thesis title: Internet traffic profiling and identification.
- *Mohamad Malli*: Co-supervised with Walid Dabbous. Graduated in September 2006. Thesis title: Revisiting Internet Topology: Application-Centric Approach.
- *Victor Ramos:* Co-supervised with Eitan Altman. Graduated in December 2004. Thesis title: Reliable and robust transmission of multimedia contents over the Internet.

13. HDR committee participation

- Kamal Singh, University Jean Monnet, University of Lyon, July 2022, Title: Towards Data Driven Intelligent Networks (Reviewer).

14. PhD committee participation

- Olga Chuchuk, Université Côte d'Azur and CERN, February 2024, title: Data access optimisation at CERN and in the Worldwide LHC Computing Grid (WLCG) (President).
- Hina Qayyum, Macquarie University, Autralia, December 2023, title: Exposing misconduct on free online platforms: A study of mobile apps, web games, and social networks (Reviewer).
- Philippe Graff, Université de Loraine, December 2023, title: Characterization, in-network identification and optimization of low-latency traffic transport - the case of Cloud-Gaming (Reviewer).
- Ziad Tlaiss, Mines-Telecom Atlantique Bretagne, December 2023, title: Automated network packet traces analysis methods for fault recognition and TCP flavor identification (Reviewer).
- Matthieu Gouel, LIP6, Sorbonne Université, June 2023, title: Internet-Scale Route Tracing Capture and Analysis (Reviewer).

- David Baldassin, Université Côte d'Azur and Cosmo Software, May 2023, title: Design and Evaluation of New Transport Protocols for WebRTC (Mid-Term Jury Member).
- Ilias Driouich, Inria, Université Côte d'Azur and Amadeus, May 2023, title: Privacy-Preserving Algorithms for Federated Learning (Mid-Term Jury Member).
- Thomas Favale, Politecnico di Torino, January 2023, title: Strengthening Privacy and Cybersecurity through Anonymization and Big Data (Reviewer).
- Jin Yan, Eurecom, June 2022, title: Realization of URLLC Services in 5G-NR Sidelink V2X (Mid-Term Jury Member).
- Olha Chuchuk, Inria, Université Côte d'Azur and CERN, April 2022, title: Data access optimisation at CERN and in the Worldwide LHC Computing Grid (WLCG) (Mid-Term Jury Member).
- Duncan Deveaux, Eurecom, December 2021, title: On the Networking of Knowledge in Vehicular Networks (Examiner).
- Ishani Sarkar, Université Côte d'Azur and EasyBroadcast, November 2021, title: Data mining and optimisation of a multi-content hybrid P2P/Web distribution network (President).
- Raza Ul Mustafa, University of Campinas, Brazil, October 2021, title: Machine Learning Assisted DASH QoE Inference Through Network Level QoS Features (Mid-Term Jury Member).
- Flavia Salutari, Telecom Paris, September 2021, title: Longitudinal, large-scale and unbiased Internet measurements (Examiner).
- Loïck Bonniot, IRISA and Université de Rennes, June 2021, title: Computer Network Modeling and Root Cause Analysis with Statistical Learning (Reviewer).
- Zhejiayu Ma, Université Côte d'Azur and EasyBroadcast, May 2021, title: Machine learning in the context of WebRTC-based multimedia diffusion (Mid-Term Jury Member).
- Theodoros Giannakas, Eurecom, March 2020, title: Joint Modeling and Optimization Caching and Recommendation Systems (Reviewer).
- Duncan Deveaux, Eurecom, January 2020, title: Knowledge networking for next generation vehicular networks (Mid-Term Jury Member).
- Jingxiu SU, University Grenoble Alpes and Chinese Academy of Sciences, December 2019, title: Recherches sur la mesure de l'analyse du tracking sur le Web (Reviewer).
- Lakhdar Meftah, University of Lille, December 2019, title: Towards Privacy-sensitive Mobile Crowdsourcing (Examiner).
- Mariem Ben Yahia, IMT-Atlantique, May 2019, title: Low Latency Video Streaming Solutions based on HTTP/2 (Reviewer).
- Hamza Ben Ammar, University of Rennes, March 2019, title: On Models for Performance Evaluation and Cache Resources Placement in Multi-Cache Networks (Reviewer).
- Antoine Saverimoutou, Orange Labs and IMT Atlantique, March 2019, title: Métrologie de l'Internet du futur: Nouvelles métriques et méthodes de mesure de la qualité de navigation Web (Mid-Term Jury Member).
- Muhammad Ikram, University of New South Wales and Data61, April 2018, title: Analysis and Design of Secure and Privacy Preserving Systems (Reviewer).
- Irfan Khan, Eurecom, October 2017 and September 2018, title: Vehicular Communication for High Precision Cooperative Localization (Mid-Term Jury Member).

- Wenqin Shao, Telecom Paris, November 2017, title: Measurement-based inter-domain traffic engineering: Scalability, data interpretation and network event visibility (Reviewer).
- Danilo Giordano, Politecnico di Torino, March 2017, title: Machine Learning and Bigdata Methodologies for Network Traffic Monitoring (Reviewer).
- Panagiotis Matzakos, Eurecom, October 2016, title: Scheduling and Congestion Management Policies for QoS Provision in Disruption Tolerant Networks (Reviewer).
- Quentin Jacquemart, Eurecom, October 2015, title: Towards Uncovering BGP Hijacking Attacks (Reviewer).
- Florin Coras, Polytechnic University of Catalonia (UPC), July 2015, title: On the Scalability of LISP and Advanced Overlaid Services (Reviewer).
- Pavlos Sermpezis, Eurecom, February 2015, title: Performance Analysis of Mobile Social Networks with Realistic Mobility and Traffic Patterns (Reviewer).
- Wissam Chahin, LIA, Université d'Avignon, March 2014, title: Réseaux hétérogène tolérants aux délais (Examiner).
- Rachad Maallawi, Orange Labs et Université d'Evry, January 2014, title: Mechanisms, Protocols, and Architectures for the Offloading control in the heterogeneous networks context (President).
- Xavier Miseri, Telecom Paris, October 2013, title: Enabling inter-domain path diversity (Reviewer).
- Vincenzo Ciancaglini, Inria, Université Nice Sophia Antipolis, July 2013, title: From key-based to content-based routing: system interconnection and video streaming applications (Examiner).
- Heng Cui, Eurecom, April 2013, title: Analyse et Diagnostique des Performances Web du Point de Vue de l'Utilisateur (Reviewer).
- Michelle Wetterwald, Eurecom, November 2012, title: Control of Autonomous Multimode Terminals in Heterogenous and Independent Wireless Environments (President).
- Iuniana Oprescu, Orange Labs and INP Toulouse, October 2012, title: Virtualization and Distribution of the BGP Control Plane (Examiner).
- Louis Plissonneau, Telecom Paris, July 2012, title: Network Tomography from an Operator Perspective (Reviewer).
- John Whitbeck, LIP6, Université Pierre et Marie Curie, June 2012, title: Mobile Opportunistic Networks: Visualization, Modeling, and Application to Data Offloading (Reviewer).
- Sofiane Hassayoun, Telecom Bretagne, June 2011, title: Synchronization of TCP Packet Losses: Evaluation and Application to Multipath Congestion Control (Reviewer).
- Jong Gun Lee, LIP6, Université Pierre et Marie Curie, March 2011, title: User Behavior Modeling of Content Generation and Consumption in Online Social Networks (Reviewer).
- Maria Rita Palattella, Politecnico Di Bari, February 2011, title: Wireless Personal Area Networks: Advanced Modelling and Design (Reviewer).
- Chi-Anh LA, Eurecom and Telecom Paris, October 2010, title: Content Replication in Mobile Wireless Networks (Examiner).
- Richard Gass, UPMC and Technicolor, June 2010, title: In-Motion Networking: Enabling Network Services to Users on the Move (Reviewer).
- Fernando Silveira, UPMC and Technicolor, May 2010, title: Unsupervised Diagnosis of Network Anomalies (Reviewer).

- Ali Mahmino, INP Toulouse, November 2009, title: Application du Codage Réseau aux Architectures à Garanties de Qualité de Service (QoS) (Reviewer).
- Amine Dhraief, Telecom Bretagne, September 2009, title: Mobility and Multihoming Convergence (Examiner).
- Alaeddine El Fawal, EPFL Lausanne, April 2009, title: On uncoordinated wireless ad-hoc networks: data dissemination over WIFI and cross-layer optimization for ultra wide band impulse radio (Reviewer).
- Mehdi Nafa, University of Evry-Val-d'Essonne, March 2009, title: Optimisation des applications de streaming peer to peer pour des réseaux ad hoc mobiles (Examiner).
- Dino Lopez Pacheco, ENS-Lyon, June 2008, title: Propositions for a robust and inter-operable eXplicit Control Protocol on Heterogeneous High Speed Networks (Examiner).
- Guillaume Jourjon, University of New South Walles and ENSICA Toulouse, January 2008, title: Towards a Versatile Transport Protocol (Reviewer).
- Ibtissam El Khayat, University of Liege, April 2005, title: Techniques d'apprentissage dans le contrôle de congestion: Amélioration de TCP et conception de protocoles multipoints, dans les réseaux filaires et hybrides (Reviewer).
- Niels Moller, KTH Stockholm, 2005, title: Automatic control in TCP over wireless (Reviewer).

15. Trainees

- *Saadeddine Tazili:* Energy-efficient QoE-aware B5G Cellular Networks, 2024, Master Ubinet, Université Côte d'Azur.
- *Khalid Hachem:* Experimental evaluation of sliced cellular networks, 2024, Master Ubinet, Université Côte d'Azur.
- *Yassir Amami:* Monitoring future cellular networks: interpreting radio interface measurements in terms of user experience, 2024, Master Ubinet, Université Côte d'Azur.
- *Naomi Kirimi:* Network monitoring and troubleshooting from within your browser: a data-driven approach, summer internship, 2023, MIT.
- *Giovanni Pantaleo:* Monitoring mobile edge networks, 2023, Master Ubinet, Université Côte d'Azur.
- *Yaacoub Yaacoub:* A digital twin for intelligent surfaces aided cellular network infrastructures, 2023, Master Ubinet, Université Côte d'Azur.
- *Raza UI Mustafa:* Real-time DASH video QoE inference for 5G, 2022, Visiting PhD Student, University of Campinas, Brazil.
- *Ayyoub hajjaji:* Emulation Fidelity in Cloud Environments, 2022, Master Ubinet, Université Côte d'Azur.
- *Mariella Jreidy:* Leveraging the wealth of data available in the browser for network monitoring and troubleshooting, 2022, Master Ubinet, Université Côte d'Azur.
- *Anass El Boujidi:* QoE-aware bandwidth sharing for video streaming traffic, 2021, Master Ubinet, Université Côte d'Azur.
- *Bernard Tamba Sandouno:* Confronting different network measurements datasets for a better understanding and troubleshooting of User Quality of Experience, 2020, Master Ubinet, University of Nice Sophia Antipolis.
- *Chap Chanpiseth:* Mining the ACQUA dataset: understanding mobile user Quality of Experience in the wild, 2020, Master Ubinet, University of Nice Sophia Antipolis.

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- *Nawfal Abbassi Saber:* Experimenting and modeling YouTube Quality of Experience, 2016, Master Ubinet, University of Nice Sophia Antipolis.
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- *Nicolas Aguilera:* Analysis of the link between QoE and QoS parameters on measurement traces obtained within the Adkintun Mobile platform, 2014, Master of University of Chile (NIC Labs).
- *Lelio Renard-Lavaud:* Popularité et placement des contenus dans les rśeaux tolérants aux délais, 2014, Ecole Polytechnique.
- *Salim Afra:* How is mobile applications quality impacted by network performances, 2014, Master Ubinet, University of Nice Sophia Antipolis.
- *Adel Al Jalam:* Assessing Internet Applications Quality Using Active Measurements, 2013, Master Ubinet, University of Nice Sophia Antipolis.
- *Riccardo Ravaioli:* Is the Internet neutral or content-aware? Handling the question by measurements, 2012, Master Ubinet, University of Nice Sophia Antipolis.
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- *Francisco Santos:* Content management in mobile wireless networks, 2012, Master EPFL, Switzerland.
- *Mauricio JOST:* Monitoring the Quality of Internet Access by Active Probing, 2011, Master Ubinet, University of Nice Sophia Antipolis.
- *Cao Cuong NGO:* Internet Monitoring via active probes on Planetlab, 2009, Master of IFI, Vietnam.
- *Emna Salhi:* Content lookup in wireless networks, 2008, Diplôme d'Ingénieur en Informatique, ENSI, Tunis.
- *Amir Krifa:* Realistic Simulation of Delay Tolerant Networks, 2007, Diplôme d'Ingénieur en Informatique, ENSI, Tunis.
- *Mouna Abdelmoumen:* Support of transport functionalities in Delay Tolerant Networks, 2006-07, Engineer in Telecommunications, SupCom, Tunis.
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- *Niels Moller:* Analysis of TCP Westwood+, 2006, PhD student at KTH, Sweden. *Roman Hangartner*: Design and analysis of protocols for multimedia applications over P2P networks, 2004, engineering and master degree of EPFL, Lausanne.
- *Gion-Reto Cantieni*: Analysis of the MAC layer in 802.11 WLAN, engineering degree of EPFL, Lausanne.
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Chadi Barakat

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