

Grégory Bonnet

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EDUCATION & PROFESSIONAL EXPERIENCES

DIPLOMAS

- **1998:** A level (Baccalauréat) in Literature and Drama
- **2003:** Bachelor degree in Computer Sciences, focus on Mathematics and Social Sciences
- **2005:** Master degree in Computer Sciences, focus on Artificial Intelligence
- **2008:** PhD degree in Artificial Intelligence and Embedded Systems, focus on Multi-Agent System
- **2018:** Habilitation degree in Computer Science, focus on Multi-Agent System and Computational Ethics

POSITIONS

- **2009 – 2011:** Post-doctoral position in the Troyes University of Technology (ICD, ERA team)
- **2011 – Today:** Assistant Professor in the University of Caen Normandy (GREYC, MAD team)
- **2015 – Today:** Member of the French National University Council (Computer Science Section)

RESEARCH ACTIVITIES

2014 – 2018: Ethics and autonomous agents

Project: ANR ETHICAA

Consortium: Ardans, Armines-Fayol, French Aerospace Lab, Greyc, LIP6, Télécom Management

Keywords: machine ethics, multi-agent systems, privacy, robotics.

2009 – 2011: Multi-agent techniques for autonomous network

Team: Autonomous Network Environment (UTT)

Advisor: Dominique Gaïti and Guillaume Doyen

Keywords: aggregation protocol, multi-agent learning, peer-to-peer networks, user behavior modeling.

2005 – 2008: Cooperation within a satellite constellation

Team: Decision and Control (French Aerospace Lab)

Advisor: Catherine Tessier

Keywords: coalition formation, coordination and teamwork, multi-agent systems, satellite constellations.

2005 – 2006: A formal model to reason on coalition structures

Team: Argumentation, Reasoning, Decision, Uncertainty and Learning (IRIT)

Advisor: Leila Amgoud

Keywords: argumentation reasoning, coalition formation, multi-agent systems.

TEACHING ACTIVITIES

2011 – Today: University of Caen Normandy

- Artificial Intelligence
- Multi-Agent Systems
- Network Basics (until 2017)
- Software Engineering
- Web Technologies (until 2012)

2009 – 2010: Troyes University of Technology

- Decentralized Techniques for Network Security
- Knowledge Representation and Reasoning
- Multi-Agent Systems
- Network Services

2007 – 2008: National School of Civil Aviation

- Non-linear optimization

2006 – 2008: ISAE (Institut Supérieur de l'Aéronautique et de l'Espace)

- Algorithmics and C programming
- Matlab

MAJOR PUBLICATIONS

ARTICLES IN INTERNATIONAL JOURNALS

A Survey and Performance Evaluation of Decentralized Aggregation Schemes for Autonomic Management

Rafik Makhloufi, Guillaume Doyen, Grégory Bonnet and Dominique Gaïti

International Journal of Network Management

Vol. 24(6), p. 469–498, 2014

A Bayesian Approach for User Aware Peer-to-Peer Video Streaming Systems

Ihsan Ullah, Guillaume Doyen, Grégory Bonnet and Dominique Gaïti

Signal Processing: Image Communication Special issue on Advances in Video Streaming for P2P Networks

Vol. 27(5), p. 438–456, 2012

A Survey and Synthesis of User Behavior Measurements in Video Streaming Systems

Ihsan Ullah, Guillaume Doyen, Grégory Bonnet and Dominique Gaïti

IEEE Communications Surveys and Tutorials

Vol. 14(3), p. 734–749, 2012

Incremental Adaptive Organization for a Satellite Constellation

Grégory Bonnet and Catherine Tessier

Lecture Notes on Artificial Intelligence: Special Issue on Organized Adaptation in Multi-Agent Systems

Vol. 5368 (A. Artikis, J. Pitt, K. Stathis, G. Vouros Editors), p. 108–125, 2009

PUBLICATIONS IN INTERNATIONAL CONFERENCES WITH SELECTION COMMITTEE

Ethics-based Cooperation in Multi-Agent Systems

Nicolas Cointe, Grégory Bonnet and Olivier Boissier

14th Annual Conference of the European Social Simulation Association (2018)

A Normal Modal Logic for Trust in the Sincerity

Christopher Leturc and Grégory Bonnet

17th International Conference on Autonomous Agents and Multiagent Systems (p. 175–183; 2018)

Ethical Judgement of Agents' Behaviors in Multi-Agent Systems

Nicolas Cointe, Grégory Bonnet and Olivier Boissier

15th International Conference on Autonomous Agents and Multiagent Systems (p. 1106–1114; 2016)

Using KL Divergence for Credibility Assessment

Thibaut Vallée and Grégory Bonnet

14th International Conference on Autonomous Agents and Multiagent Systems (p. 1797–1798; 2015)

Towards a Framework to Deal with Ethical Conflicts in Autonomous Agents and Multi-Agent Systems

The ETHICAA Team

12th International Conference on Computer Ethics and Philosophical Enquiry (p. 1–10; 2014)

Multi-Armed Bandit Policies for Reputation Systems

Thibaut Vallée, Grégory Bonnet and François Bourdon

13th International Conference on Practical Applications of Agents and Multi-Agent Systems (p. 279–290; 2014)

A Study of Sybil Manipulations on Hedonic Games

Thibaut Vallée, Grégory Bonnet, Bruno Zanuttini and François Bourdon

13th International Conference on Autonomous Agents and Multiagent Systems (p. 21–28; 2014)

A Protocol Based on a Game-Theoretic Dilemma to Prevent Malicious Coalitions in Reputation Systems

Grégory Bonnet

20th European Conference on Artificial Intelligence (p. 187–191; 2012)

A Semi-Markovian Individual Model of Users for P2P Video Streaming Applications

Grégory Bonnet, Ihsan Ullah, Guillaume Doyen, Lionel Fillatre, Dominique Gaïti and Igor Nikiforov

4th International Conference on New Technologies, Mobility and Security (p. 1–5; 2011)

Modeling User Behavior in P2P Live Video Streaming System through a Bayesian Network

Ihsan Ullah, Grégory Bonnet, Guillaume Doyen and Dominique Gaïti

4th International Conference on Autonomous Infrastructure, Management and Security (p. 2–13; 2010)

Towards a P2P-based Deployment of Network Management Information

Rafik Makhloufi, Grégory Bonnet, Guillaume Doyen and Dominique Gaïti

4th International Conference on Autonomous Infrastructure, Management and Security (p. 26–37; 2010)

Collaboration Among a Satellite Swarm

Grégory Bonnet and Catherine Tessier

6th International Joint Conference on Autonomous Agents and Multi-Agent Systems (p. 287–294; 2007)

PERFORMING ARTS EXPERIENCE (DRAMA AND WRITTING)

2019

- Writing workshop *Les Hippophages* with Nicolas Sorel (Amavada)
- Writer for *Le Théâtre des Valises* (Amavada)

2018

- *Tous des chevaliers sauvages*, stage director Yohann Allex (Amavada)
- Writing workshop *Les Hippophages* with Nicolas Sorel (Amavada)

2017

- *Trifouillons le Jazz*, stage director Valéry Dekowski (Amavada)
- *Octave ! (Octave Mirbeau)*, stage director Valéry Dekowski (Amavada)
- *United Strates*, stage director Yohann Allex (Amavada)
- Writing workshop *Les Hippophages* with Nicolas Sorel (Amavada)
- Writer for *Le Voyeur* fanzine (Camille Binelli and Romain Sadier)

2016

- *Regardez l'homme*, stage director Valéry Dekowski (Amavada)
- *Brillante !*, stage director Yohann Allex (Amavada)
- *Trifouillons Guillaume le Conquérant*, stage director Valéry Dekowski (Amavada)
- Writing workshop *Les Hippophages* with Nicolas Sorel (Amavada)
- *Un amour sans limite* (Caen short movie marathon; boldness price)

2015

- *Far-Ouest*, stage director Valéry Dekowski (Amavada)
- *Entre les aigles et les requins*, stage director Yohann Allex (Amavada)
- Writing workshop *Les Hippophages* with Nicolas Sorel (Amavada)

2014

- *Le Chant du Chien (Zwy Milshtein)*, adaptation, stage director Valéry Dekowski (Amavada)
- *Radio Manson – Ordinarium Obsessio (Hervé Bulteau and Kévin Lambert)*
- *Dans mon oeil le soleil*, stage director Yohann Allex (Amavada)
- Writing workshop *Les Hippophages* with Nicolas Sorel (Amavada)

2013

- *Le Congrès des Salamandres (Karel Čapek)*, adaptation, stage director Valéry Dekowski (Amavada)
- *L'Enfer sourd à mes pieds*, stage director Yohann Allex (Amavada)
- Writing workshop *Les Hippophages* with Nicolas Sorel (Amavada)

2012

- *Opération Cobao*, stage director Valéry Dekowski (Amavada)

- *El Chronocab*, stage director Yohann Alex (Amavada)
 - *Wolfgang A.*, stage directors Didier Horry, Véronique Leclerc and Valéry Dekowski (Zenith Caen)
- 2007**
- *L'Arbre*, short film direction and acting with Thomas Aymard (Arsène Lupin)
- 2004**
- *L'Azote (René de Obaldia)*, stage director Jean-Claude Desport (Théâtre de l'Ecale)
 - *Ronde de Nuit*, personal creation with Théâtre de la Balise
 - *Impro'Fiesta*, improvisation festival organization (Théâtre de la Balise)
 - Drama teacher for Théâtre de la Balise
- 2003**
- *Oncle Vania (Anton Tchekhov)*, stage director Jean-Claude Desport (Théâtre de l'Ecale)
 - *Moustaches du Phoques (Jörn Riel)*, stage director Jean-Claude Desport (Théâtre de l'Ecale)
- 2002**
- *Moustaches du Phoques (Jörn Riel)*, stage director Jean-Claude Desport (Théâtre de l'Ecale)
 - *Conte d'un Plume Orientale*, stage director Thomas Aymard (Arsène Lupin)
 - Drama teacher for Arsène Lupin
- 2001**
- *Les Nonnes (Edouardo Mannet)*, stage director Jean-Claude Desport (Théâtre de l'Ecale)
 - *Conte d'une Plume Orientale*, personal creation with Arsène Lupin
 - Drama teacher and improvisation matches organizer for Arsène Lupin
- 2000**
- *Volpone (Jules Romain)*, stage director Jean-Claude Desport (Théâtre de l'Ecale)
- 1999**
- *Lorenzaccio (Alfred de Musset)*, stage director Caroline Mazaud (Arsène Lupin)
 - *Mais n'te promène donc pas toute nue ! (Feydeau)*, stage director Thomas Aymard (Arsène Lupin)
 - Excerpts from Xavier Durringer, Jean-Marie Piemme and Raymond Queneau (Nicole Velche)
 - *Le Zouave (Claude Rich)*, personal creation with the support of Michel Bruzat (Théâtre de la Passerelle)
 - *De l'influence du soleil sur la faune locale*, short film (Arsène Lupin)
- 1998**
- *La Nuit des Rois (Shakespeare)* and *Ubu Roi (Alfred Jarry)*, stage director Paul Golub (Volcan Bleu)
 - Assistant director on *Le Dernier Jour d'un Condamné (Victor Hugo)*, stage director Nathalie Grenat
 - *Mais n'te promène donc pas toute nue ! (Feydeau)*, stage director Thomas Aymard (Arsène Lupin)
 - *Roberto Zucco (Koltès)*, stage director Philippe Labonne (Théâtre en Diagonale)
 - *Sextuor Banquet (Armando Llamas)*, stage director Michel Bruzat (Théâtre de la Passerelle)
- 1997**
- *Roberto Zucco (Koltès)*, stage director Philippe Labonne (Théâtre en Diagonale)
 - *Lucrece Borgia (Victor Hugo)*, adaptation, stage director Philippe Labonne (Théâtre en Diagonale)
 - *La Répétition ou le Rond-point (M'hamed Benghetaff)*, reading with Arsène Lupin
- 1996**
- *Maux d'amour* (various), stage director Philippe Labonne (Théâtre en Diagonale)
- 1994**
- *La Steppe Infinie (Esther Authzig)*, stage director Nicole Velche