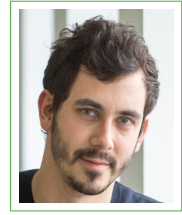


Aurélien Bellet

INRIA Lille - Nord Europe
40 avenue Halley, 59650 Villeneuve d'Ascq, France
☎ +33 (0) 3 59 35 87 13
✉ aurelien [dot] bellet [at] inria [dot] fr
🌐 <http://researchers.lille.inria.fr/abellet/>



Employment

- 2015–present** **Research Scientist (CR2 / CRCN)**, INRIA, Lille, France.
Tenured researcher position. Member of the Magnet (MACHINE learninG in information NETworks) research group, a joint team between INRIA and CRISAL (University of Lille).
- 2014–2015** **Postdoctoral Researcher**, L^TCI UMR CNRS 5141, Télécom ParisTech, Paris, France.
(12 months) Member of the STA (Statistics and Applications) group led by Stéphan Cléménçon:
- Studied approximations of U-statistics by sampling, with applications to large-scale empirical risk minimization for learning to rank, metric learning and graph inference problems.
 - Developed decentralized gossip algorithms for U-statistics estimation and optimization.
 - Involved in the industrial chair "Machine Learning for Big Data" (see below).
- 2013–2014** **Postdoctoral Researcher**, University of Southern California, Los Angeles, USA.
(18 months) Member of the SMILE group led by Fei Sha:
- Developed new metric learning techniques that scale to high-dimensional data.
 - Proposed distributed, communication-efficient algorithms for large-scale sparse learning.
 - Involved in the IARPA-funded BABEL program on automatic speech recognition (see below).

Education

- 2009–2012** **Ph.D. in Computer Science and Engineering**, Laboratoire Hubert Curien UMR CNRS 5516, Université Jean Monnet, Saint-Etienne, France.
- Title: Supervised Metric Learning with Generalization Guarantees.
 - Main contributions: an analytical framework for metric learning, and a family of efficient metric learning algorithms for data represented as numerical vectors or structured objects (strings, trees, etc) with theoretical guarantees on their performance.
 - Supervisors: Marc Sebban and Amaury Habrard.
 - Defense date: December 11, 2012.
- 2009–2010** **Postgraduate Diploma in Informatics**, University of Edinburgh, Edinburgh.
- Specialty: Learning from Data.
 - Courses on statistical machine learning, pattern recognition, probabilistic graphical models, reinforcement learning, data mining, information retrieval, computer algebra and algorithmic game theory.
- 2007–2009** **MSc in Computer Science**, Université Jean Monnet, Saint-Etienne.
- Specialties: Machine Learning and Data Mining.
 - **Graduate exchange student** 2008-2009 at McMaster University, Canada. Courses on mathematical optimization, finding patterns in strings and dynamic cognitive systems.
- 2004–2007** **BSc in Computer Science**, Université Jean Monnet, Saint-Etienne.

Awards and Honors

- Best reviewer award** I was among the top 200 reviewers (3000 in total) for the conference NeurIPS 2018.

Ph.D. award My thesis received the best Ph.D. award from the French Association for Artificial Intelligence (AFIA) in 2013.

Involvement in Research Projects

- 2018-present** **PAD-ML (co-PI)**, an North-European associate team between Inria Magnet and the Privacy-preserving data analysis group at Alan Turing Institute (UK). The project is about privacy-aware distributed machine learning.
- 2018-present** **Comprise**, a European H2020 applied project on building cost-effective, multilingual, privacy-driven voice-enabled services.
- 2018-present** **DEEP-PRIVACY**, a project funded by the French National Research Agency (ANR) on the design and analysis of distributed, personalized and privacy-preserving machine learning algorithms for speech processing.
- 2016-present** **PAMELA**, a project funded by the French National Research Agency (ANR) on developing machine learning theories and algorithms in order to learn local and personalized models from data distributed over networked infrastructures. We focus in particular on the question of learning under communication and privacy constraints.
- 2016-present** **GRASP**, project funded by the French National Research Agency (ANR) on new graph-based machine learning algorithms for structured output problems in natural language processing. In semi-supervised learning scenarios, the goal is to extend graph-based learning approaches along two main directions: (i) the use of structured outputs during inference, and (ii) adaptively learning the graph based on the task objective.
- 2016-present** **SOM**, an ERC-funded Proof-of-Concept project on privacy-preserving learning and mining from networked data, with applications to mobility.
- 2016-present** **LEGO (co-PI)**, an Inria@SiliconValley associate team between Inria Magnet and Fei Sha's group (University of Southern California). The project is about learning appropriate representations of structured texts and applying such representations to complex and structured prediction tasks in natural language processing..
- 2014-2015** **Machine Learning for Big Data**, a chair led by Stéphan Cléménçon and funded by major companies such as Safran, PSA Peugeot Citroën, Criteo and BNP Paribas. Besides pursuing academic research on topics such as stochastic optimization and distributed/decentralized learning, I have been involved in collaborations with the industrial partners through the co-organization of a workshop and a data challenge, the co-supervision of internships, etc.
- 2013-2014** **BABEL**, a IARPA-funded speech recognition program on efficiently building keyword search systems for any new language from limited and noisy data. Within the Lorelei consortium involving 5 universities as well as IBM Research, my research group proposed (among other things) large-scale kernel methods that can match deep neural nets' performance in acoustic modeling.
- 2009-2013** **LAMPADA**, a project funded by the French National Research Agency (ANR) on learning algorithms, models and sparse representations for structured data.
- 2009-2013** **PASCAL2**, a European Commission's ICT-funded Network of Excellence for pattern analysis, statistical modeling and computational learning.

Research visits

- 2018** Alan Turing Institute, UK (Adrià Gascón and Borja Balle). 1 week.

- 2017** École Polytechnique Fédérale de Lausanne, Switzerland (Rachid Guerraoui). 1 week.
2016, 2017 University of Southern California, USA (Fei Sha). 2 x 2 weeks.

Seminar and Invited Talks

- 2019** Artificial Intelligence & Privacy Protection.
Invited talk at the kick-off seminar of the HumAI Alliance in Artificial Intelligence.
- 2018–2019** Collaborative Machine Learning in Large-Scale Peer-to-Peer Distributed Systems.
Seminar at Inria WIDE. Invited talk at the 4th GDR RSD and ASF Winter School on Distributed Systems and Networks.
- 2018** The Natural Privacy of Gossip Protocols: First Results and Open Questions.
Talk at the Workshop on Privacy-Aware Distributed Machine Learning.
- 2018** A Massively Distributed Algorithm for Private Averaging with Malicious Adversaries.
Seminar at Statistics Seminar of Paris 6/7 and LTCI Télécom ParisTech.
- 2017–2019** Privacy-Preserving Algorithms for Decentralized Collaborative Machine Learning.
Seminar at Inria Sequel, Inria Multispeech, CMLA, Naver Labs Europe, Alan Turing Institute and Thales Research & Technology. Invited talk at the Russian-French Workshop in Big Data and Applications, the EPFL-Inria Workshop and the Journées de Statistique (session SSFAM).
- 2017** A Decentralized and Robust Protocol for Private Averaging over Highly Distributed Data.
Seminar at CRISAL Lille (DaTinG department day). Invited talk at the DALI 2017 Workshop on Fairness and Privacy in Machine Learning.
- 2017** Decentralized Estimation and Optimization of Pairwise Functions.
Seminar at SIGMA (Centrale Lille).
- 2016–2017** Decentralized Collaborative Learning of Personalized Models over Networks.
Seminar at Inria Magnet and LPD Lab (EPFL). Invited talk at the Workshop on Distributed Machine Learning (Télécom ParisTech) and at the Journée Apprentissage et Interactions du GdR IA (UPMC).
- 2016–2017** U-Statistics in Machine Learning: Large-Scale Minimization and Decentralized Estimation.
Seminar at EURA NOVA, Inria Magnet, LaHC Saint-Étienne and Proba/Stat Lille.
- 2016** Metric Learning for Large-Scale Data.
Seminar Statistical Machine Learning (SMILE) in Paris.
- 2015–2016** Large-Scale Similarity and Distance Metric Learning.
Seminar at Criteo Labs Paris and Inria Magnet.
- 2015** Similarity and Distance Metric Learning with Applications to Computer Vision.
Tutorial at ECML/PKDD 2015 (with M. Cord).
- 2015** Scaling-up Empirical Risk Minimization: Optimization of Incomplete U-statistics.
Invited talk at International Workshop on Machine learning, Optimization and Big Data (MOD 2015).
- 2014–2015** The Frank-Wolfe Algorithm: Recent Results and Applications to High-Dimensional Similarity Learning and Distributed Optimization.
Seminar at LIP6 Paris 6, LaHC Saint-Étienne, Heudiasyc Compiègne, LIF Marseille, Inria Magnet, LIG Grenoble, CEREMADE Paris Dauphine, IMT Toulouse, LRI Inria/Paris Sud, AgroParisTech, Séminaire Parisien de Statistique and ENS/Inria Paris. Invited talk at ICML 2015 workshop "Greed is Great".
- 2014** Metric Learning (and incidentally some distributed optimization).
Seminar at LTCI (Télécom ParisTech), Paris.

- 2013** Tutorial on Metric Learning.
Course/tutorial at the Université Catholique de Louvain for the CIL Doctoral School.
- 2012–2013** Supervised Metric Learning with Generalization Guarantees.
Seminar at Machine Learning Group Louvain, ENS/Inria Paris, LIRIS Lyon, LITIS Rouen, LIG Grenoble and USC Machine Learning.

Teaching

- 2018** **Advanced Machine Learning**, *Cycle Master*, Télécom ParisTech.
Advanced machine learning methods: metric learning, large-scale kernel methods, graph-based learning. 15 hours of lectures and lab sessions (taught in French).
- 2018** **Certificat d'Études Spécialisées Data Scientist**, Télécom ParisTech.
Introduction to supervised learning, Support Vector Machines. 10.5 hours of lectures and lab sessions (taught in French).
- 2018** **Machine Learning**, *Data Analysis & Decision making*, Ecole Centrale de Lille.
Advanced machine learning methods: metric learning, large-scale kernel methods, graph-based learning. 12 hours of lectures and lab sessions (taught in French).
- 2017** **Advanced Machine Learning**, *Cycle Master*, Télécom ParisTech.
Advanced machine learning methods: metric learning, large-scale kernel methods, graph-based learning. 18 hours of lectures and lab sessions (taught in French).
- 2017** **Certificat d'Études Spécialisées Data Scientist**, Télécom ParisTech.
Introduction to supervised learning, Support Vector Machines. 14 hours of lectures and lab sessions (taught in French).
- 2017** **Lecture on Learning Similarity and Distance Functions**, Pre-doc Summer School on Learning Systems.
Introduction to similarity and distance metric learning at a summer school targeting pre-doc students organized at ETH Zurich. 1.5 hours of lectures (taught in English).
- 2016** **Advanced Machine Learning**, *Cycle Master*, Télécom ParisTech.
Advanced machine learning methods: distributed optimization, metric learning, large-scale kernel methods, graph-based learning. 21 hours of lectures and lab sessions (taught in French) and organization of a data challenge with the company Morpho on the topic of rank aggregation for facial recognition.
- 2016** **Certificat d'Études Spécialisées Data Scientist**, Télécom ParisTech.
Introduction to supervised learning, Support Vector Machines. 10 hours of lectures and lab sessions (taught in French).
- 2015** **Advanced Machine Learning**, *Cycle Master*, Télécom ParisTech.
Advanced machine learning methods: stochastic approximation, distributed algorithms, structured prediction, large-scale kernel methods. 15 hours of lab sessions (taught in French) and organization of a data challenge with the company Morpho on the topic of metric learning for facial recognition.
- 2015** **Machine Learning and Data Mining**, *Cycle Master*, Télécom ParisTech.
Introduction to machine learning and data mining: Python programming, k nearest neighbors, perceptron, classification and regression trees, large margin and kernel methods, ensemble learning and unsupervised learning. 24 hours of lab sessions, taught in French.
- 2012** **Pattern Recognition**, *Master Erasmus-Mundus CIMET (Color in Informatics and Media Technology)*, Université Jean Monnet – Saint-Etienne.
Introduction to convex optimization, support vector machines (SVM) and their applications. 20 hours of lectures, tutorials and lab sessions, taught in English. In charge of the course unit.

- 2010-2012 Design and Analysis of Algorithms**, *Master Erasmus-Mundus CIMET (Color in Informatics and Media Technology)*, Université Jean Monnet – Saint-Etienne.
Introduction to C programming, divide-and-conquer algorithms, dynamic programming, graph algorithms. 66 hours of lab sessions with student projects, taught in English.
- 2012 Object-Oriented Programming**, *Licence professionnelle ATII par alternance*, IUT de Saint-Etienne.
Introduction to object-oriented programming and Java. 21 hours of lectures, tutorials and lab sessions taught in French to students in cooperative education (work-based learning). In charge of the course.
- 2011 Introduction to Office Tools**, *Licence Sciences Technologie Santé 1ère année*, Université Jean Monnet – Saint-Etienne.
Introduction to information technology: Internet, word processing, HTML, spreadsheet and presentation applications, databases. 12 hours of lab sessions, taught in French.

Other Professional Activities

- Supervision**
- Postdocs: Melissa Ailem (2017-, Inria@SiliconValley fellowship)
 - Ph.D. students: Mahsa Asadi (2018-), Brij Mohan Lal Srivastava (2018-), Mariana Vargas Vieyra (2018-), Robin Vogel (2017-, CIFRE thesis)
 - Engineers: William de Vazelhes (2017-, working on metric-learn)
 - Visiting Ph.D. students: Tejas Kulkarni (2018, University of Warwick), Valentina Zantedeschi (2018, University of Saint-Etienne)
 - Master interns: Antoine Capriski (University of Lille, 2018), Arthur d’Azémar (University of Lille, 2018), Robin Vogel (ENSAE, 2016), Pierre Dellenbach (École Polytechnique, 2016), Paul Vanhaesebrouck (École Polytechnique, 2016 - best internship award), Thibault Liétard (ENS Rennes, 2016), Maxime Flauder (ENS Paris, 2015)
- Software development**
- Metric-learn: metric learning library in Python compatible with scikit-learn. Part of the SkMetricLearn development project funded by Inria, of which I am PI.
 - Occasional contributor to scikit-learn, the reference machine learning library in Python.
 - Various open-source implementations of algorithms proposed in my papers are publicly available on GitHub and mloss.
- Organization of scientific events**
- NeurIPS 2018 Workshop on “Privacy Preserving Machine Learning”
 - Workshop on “Privacy-Aware Distributed Machine Learning” (Inria Lille, 2018)
 - Workshop on “Decentralized Machine Learning, Optimization and Privacy” (Inria Lille, 2017)
 - NIPS 2016 Workshop on “Private Multi-Party Machine Learning”
 - ECML/PKDD 2015 Tutorial on “Similarity and Distance Metric Learning with Applications to Computer Vision”
- Editorial activities**
- Journal referee: JMLR, MLJ, IEEE TPAMI, IEEE TKDE, IEEE CYB, Neurocomputing, SIGPRO, IEEE ToN.
 - Area chair: ICML ’19.
 - Program committee: ICML ’15 ’16 ’17 ’18, NIPS/NeurIPS ’16 ’17 ’18, AISTATS ’17 ’18 ’19, ECML/PKDD ’11 ’13 ’14, IJCAI ’13 ’16, MOD ’15 ’16 ’17, CAp ’18.
- Scientific expertise**
- Committee member of the Gilles-Kahn PhD award of the French Society of Computer Science (SIF), sponsored by the French Academy of Sciences (2018-2020)
 - External reviewer for the French National Research Agency (ANR), track “Projets de Recherche Collaborative – International” (2018)
 - Member of 4 PhD committees (Télécom ParisTech x2, Sorbonne Université x2)
 - Member of Assistant Professor recruiting committee in Télécom Saint-Etienne (2016).

- Dissemination and popularization**
- Consulting for TV program (Arte, 2018)
 - Intervention in a TV program (Fête de la science, 2017)
 - Lecture on graph mining in industrial training program on data science (Allianz France, 2016)
 - Visit of Belgian company EURA NOVA with a technical talk to the R&D team and a popularization talk to a larger company audience.

Publications

Books and Book Chapters

- [1] A. Bellet, A. Habrard, and M. Sebban. *Metric Learning*. Morgan & Claypool Publishers, 2015.

Articles in International Journals

- [2] K. Liu and A. Bellet. Escaping the Curse of Dimensionality in Similarity Learning: Efficient Frank-Wolfe Algorithm and Generalization Bounds. *Neurocomputing*, 333:185–199, 2019.
- [3] A. May, A. B. Garakani, Z. Lu, D. Guo, K. Liu, A. Bellet, L. Fan, M. Collins, D. Hsu, B. Kingsbury, M. Picheny, and F. Sha. Kernel Approximation Methods for Speech Recognition. *Journal of Machine Learning Research*, 20(59):1–36, 2019.
- [4] W. Zheng, A. Bellet, and P. Gallinari. A Distributed Frank-Wolfe Framework for Learning Low-Rank Matrices with the Trace Norm. *Machine Learning*, 107(8–10):1457–1475, 2018.
- [5] A. Bellet, J. F. Bernabeu, A. Habrard, and M. Sebban. Learning Discriminative Tree Edit Similarities for Linear Classification — Application to Melody Recognition. *Neurocomputing*, 214:155–161, 2016.
- [6] S. Cléménçon, I. Colin, and A. Bellet. Scaling-up Empirical Risk Minimization: Optimization of Incomplete U-statistics. *Journal of Machine Learning Research*, 17(76):1–36, 2016.
- [7] A. Bellet and A. Habrard. Robustness and Generalization for Metric Learning. *Neurocomputing*, 151(1):259–267, 2015.
- [8] A. Bellet, A. Habrard, E. Morvant, and M. Sebban. Learning A Priori Constrained Weighted Majority Votes. *Machine Learning*, 97(1–2):129–154, 2014.
- [9] A. Bellet, A. Habrard, and M. Sebban. Good edit similarity learning by loss minimization. *Machine Learning*, 89(1):5–35, 2012.
- [10] A. Bellet, M. Bernard, T. Murgue, and M. Sebban. Learning state machine-based string edit kernels. *Pattern Recognition*, 43(6):2330–2339, 2010.

Articles in Peer-Reviewed International Conferences

- [11] M. Ailem, B. Zhang, A. Bellet, P. Denis, and F. Sha. A Probabilistic Model for Joint Learning of Word Embeddings from Texts and Images. In *Conference on Empirical Methods in Natural Language Processing (EMNLP)*. 2018.
- [12] A. Bellet, R. Guerraoui, M. Taziki, and M. Tommasi. Personalized and Private Peer-to-Peer Machine Learning. In *International Conference on Artificial Intelligence and Statistics (AISTATS)*. 2018.
- [13] R. Vogel, A. Bellet, and S. Cléménçon. A Probabilistic Theory of Supervised Similarity Learning for Pointwise ROC Curve Optimization. In *International Conference on Machine Learning (ICML)*. 2018.
- [14] P. Vanhaesebrouck, A. Bellet, and M. Tommasi. Decentralized Collaborative Learning of Personalized Models over Networks. In *International Conference on Artificial Intelligence and Statistics (AISTATS)*. 2017.

- [15] I. Colin, A. Bellet, J. Salmon, and S. Cléménçon. Gossip Dual Averaging for Decentralized Optimization of Pairwise Functions. In *International Conference on Machine Learning (ICML)*. 2016.
- [16] Z. Lu, D. Guo, A. Bagheri Garakani, K. Liu, A. May, A. Bellet, L. Fan, M. Collins, B. Kingsbury, M. Picheny, and F. Sha. A Comparison Between Deep Neural Nets and Kernel Acoustic Models for Speech Recognition. In *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*. 2016.
- [17] G. Papa, A. Bellet, and S. Cléménçon. On Graph Reconstruction via Empirical Risk Minimization: Fast Learning Rates and Scalability. In *Annual Conference on Neural Information Processing Systems (NIPS)*. 2016.
- [18] A. Bellet, Y. Liang, A. Bagheri Garakani, M.-F. Balcan, and F. Sha. A Distributed Frank-Wolfe Algorithm for Communication-Efficient Sparse Learning. In *SIAM International Conference on Data Mining (SDM)*. 2015.
- [19] S. Cléménçon, A. Bellet, O. Jelassi, and G. Papa. Scalability of Stochastic Gradient Descent based on “Smart” Sampling Techniques. In *INNS Conference on Big Data (INNS-BigData)*. 2015.
- [20] I. Colin, A. Bellet, J. Salmon, and S. Cléménçon. Extending Gossip Algorithms to Distributed Estimation of U-statistics. In *Annual Conference on Neural Information Processing Systems (NIPS)*. 2015. **Selected for spotlight presentation (4% acceptance rate)**.
- [21] K. Liu, A. Bellet, and F. Sha. Similarity Learning for High-Dimensional Sparse Data. In *International Conference on Artificial Intelligence and Statistics (AISTATS)*. 2015.
- [22] G. Papa, S. Cléménçon, and A. Bellet. SGD Algorithms based on Incomplete U-statistics: Large-Scale Minimization of Empirical Risk. In *Annual Conference on Neural Information Processing Systems (NIPS)*. 2015.
- [23] Y. Shi, A. Bellet, and F. Sha. Sparse Compositional Metric Learning. In *AAAI Conference on Artificial Intelligence*. 2014.
- [24] A. Bellet, A. Habrard, and M. Sebban. Similarity Learning for Provably Accurate Sparse Linear Classification. In *International Conference on Machine Learning (ICML)*. 2012.
- [25] A. Bellet, A. Habrard, and M. Sebban. An Experimental Study on Learning with Good Edit Similarity Functions. In *IEEE International Conference on Tools with Artificial Intelligence (ICTAI)*. 2011.
- [26] A. Bellet, A. Habrard, and M. Sebban. Learning Good Edit Similarities with Generalization Guarantees. In *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD)*. 2011. **Among the 10 papers selected for an extended version in *Machine Learning Journal***.

Articles in Peer-Reviewed International Workshops

- [27] A. Bellet, R. Guerraoui, and H. Hendrikx. Who started this gossip? Differentially private rumor spreading. In *NeurIPS Workshop on Privacy Preserving Machine Learning*. 2018.
- [28] V. Zantedeschi, A. Bellet, and M. Tommasi. Communication-Efficient Decentralized Boosting while Discovering the Collaboration Graph. In *NeurIPS Workshop on Machine Learning on the Phone and other Consumer Devices*. 2018.
- [29] A. Bellet, R. Guerraoui, M. Taziki, and M. Tommasi. Personalized and Private Peer-to-Peer Machine Learning. In *NIPS Workshop on Machine Learning on the Phone and other Consumer Devices*. 2017.
- [30] T. L. Van, A. Bellet, and J. Ramon. Decentralized and Privacy-Aware Learning of Traversal Time Models. In *ECML/PKDD workshop on Data Mining with Secure Computation*. 2017.

- [31] P. Dellenbach, J. Ramon, and A. Bellet. A Decentralized and Robust Protocol for Private Averaging over Highly Distributed Data. In *NIPS workshop on Private Multi-Party Machine Learning*. 2016.
- [32] A. Bellet, Y. Liang, A. Bagheri Garakani, M.-F. Balcan, and F. Sha. Distributed Frank-Wolfe Algorithm: A Unified Framework for Communication-Efficient Sparse Learning. In *ICML workshop on New Learning Frameworks and Models for Big Data*. 2014.
- [33] A. Bellet, A. Habrard, and M. Sebban. Good Similarity Learning for Structured Data. In *NIPS workshop "Beyond Mahalanobis: Supervised Large-Scale Learning of Similarity"*. 2011.

Articles in Peer-Reviewed French Conferences

- [34] A. Bellet, R. Guerraoui, M. Taziki, and M. Tommasi. Personalized and Private Peer-to-Peer Machine Learning. In *Atelier sur la Protection de la Vie Privée (APVP)*. 2018.
- [35] V. Zantedeschi, A. Bellet, and M. Tommasi. Frank-Wolfe Boosting Décentralisé pour l'Apprentissage de Modèles Personnalisés. In *Conférence Francophone sur l'Apprentissage Automatique (CAp)*. 2018.
- [36] P. Dellenbach, J. Ramon, and A. Bellet. Un protocole décentralisé et robuste pour le calcul de moyenne sous contrainte de vie privée. In *Conférence Francophone sur l'Apprentissage Automatique (CAp)*. 2017.
- [37] P. Vanhaesebrouck, A. Bellet, and M. Tommasi. Apprentissage collaboratif et décentralisé de modèles personnels sur un réseau. In *Conférence Francophone sur l'Apprentissage Automatique (CAp)*. 2017.
- [38] I. Colin, A. Bellet, J. Salmon, and S. Cléménçon. Un algorithme de Gossip pour l'optimisation décentralisée de fonctions sur les paires. In *Conférence Francophone sur l'Apprentissage Automatique (CAp)*. 2016.
- [39] A. Bellet, A. Habrard, E. Morvant, and M. Sebban. Vote de majorité a priori contraint pour la classification binaire : spécification au cas des plus proches voisins. In *Conférence Francophone sur l'Apprentissage Automatique (CAp)*. 2013.
- [40] A. Bellet, A. Habrard, and M. Sebban. Apprentissage de bonnes similarités pour la classification linéaire parcimonieuse. In *Conférence Francophone sur l'Apprentissage Automatique (CAp)*. 2012.
- [41] A. Bellet, A. Habrard, and M. Sebban. Apprentissage Parcimonieux à partir de Fonctions de Similarité d'Édition (ϵ, γ, τ) -Good. In *Conférence Francophone sur l'Apprentissage Automatique (CAp)*. 2011.
- [42] A. Bellet, M. Bernard, T. Murgue, and M. Sebban. Apprentissage de noyaux d'édition de séquences. In *Conférence Francophone sur l'Apprentissage Automatique (CAp)*. 2009. **Best paper award**.

Technical Reports

- [43] A. Bellet, R. Guerraoui, and H. Hendrikx. Who started this rumor? Quantifying the natural differential privacy guarantees of gossip protocols. Technical report, arXiv:1902.07138, 2019.
- [44] V. Zantedeschi, A. Bellet, and M. Tommasi. Communication-Efficient and Decentralized Multi-Task Boosting while Learning the Collaboration Graph. Technical report, arXiv:1901.08460, 2019.
- [45] P. Dellenbach, A. Bellet, and J. Ramon. Hiding in the Crowd: A Massively Distributed Algorithm for Private Averaging with Malicious Adversaries. Technical report, arXiv:1803.09984, 2018.
- [46] Z. Lu, A. May, K. Liu, A. B. Garakani, D. Guo, A. Bellet, L. Fan, M. Collins, B. Kingsbury, M. Picheny, and F. Sha. How to Scale Up Kernel Methods to Be As Good As Deep Neural Nets. Technical report, arXiv:1411.4000, 2014.
- [47] A. Bellet, A. Habrard, and M. Sebban. A Survey on Metric Learning for Feature Vectors and Structured Data. Technical report, arXiv:1306.6709, 2013.