

CURRICULUM VITAE

Guillaume Metzler

Born the 7 of January 1992 in HAGUENAU, FRANCE

31 years old

Nationality : French

PhD in Computer Science

Associate Professor in Computer Science



Current Affiliation

Teaching : Institute of Communication (ICOM) - University Lumière Lyon 2, University of Lyon.

Research : ERIC Laboratory, UR 3083 (K-073) - 5 Avenue Pierre Mendès France, 69500 Bron.

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Personal Website : <https://guillaumemetzler.github.io>

Research Topics

- Imbalanced (Binary) Classification
- Cost-Sensitive Learning
- Metric Learning and Representation Learning
- Boosting
- SemiDefinite Programming
- Domain Adaptation

Professional Experiences

- | | |
|-------------------|--|
| 09/2020 - ... | Associate Professor ERIC Laboratory UR 3083, University Lumière Lyon 2, University of Lyon |
| 04/2020 - 08/2020 | Post-Doctoral Researcher Hubert Curien Laboratory UMR CNRS 5516, University Jean-Monnet, University of Lyon |
| 09/2019 - 03/2020 | Post-Doctoral Researcher Hubert Curien Laboratory UMR CNRS 5516, University Jean-Monnet, University of Lyon |

Education

- 2019 **PhD in Computer Science**
- PhD from University Jean-Monnet, University of Lyon, defended the 25th of September 2019.
PhD Director : Marc Sebban (Professor)
Co-supervisors : Elisa Fromont (Professor) et Amaury Habrard (Professor)
PhD Topic : *Learning from Imbalanced Data : an Application to Bank Fraud Detection*
- Members of the Jury :
Yves Grandvalet (Professor) - President
Marianne Clausel (Professor) - Reviewer
Marc Tommasi (Professor) - Reviewer
Xavier Badiche (CEO BLITZ Business Services) - Invited Member
Brahim Belkasmı (R&D Engineer BLITZ Business Services) - Invited Member
- Industrial PhD funded by the French ANRT and in Partnership with BLITZ Business Services Company.
- 2015 **Magistère of Fundamental et Applied Mathematics**
UFR of Mathematics and Computer Science, University of Strasbourg
- 2015 **Master of applied Mathematics : Applied Mathematics to Biology and Medecine**
University Claude Bernard, University of Lyon
- 2013 **Bachelor of Fundamental et Applied Mathematics**
UFR of Mathematics and Computer Science, University of Strasbourg
- 2012 **Classe Préparatoire aux Grandes Ecoles (CPGE) - Mathematics and Physic (MPSI then MP)**
Kléber High School, Strasbourg
- 2010 **Baccalauréat Scientifique**
Alphonse Heinrich High School, Haguenau

Pedagogical Activities

Teaching

The table below lists the courses I have taught since my PhD. It is not representative of the number of hours of teaching done but it gives an overview of the teaching done.

The courses presented are those carried out at the Jean Monnet University (UJM), at the Lyon 2 University (ICOM) and at the Lyon Management School (EM Lyon).

When the name of the course is given in English, it means that the course was provided in english to international students. Otherwise, the course was given in French.

| Bachelor - Formation | Type | Instruction's hours | Course | Years |
|---|----------|---------------------|--|-----------|
| Niveau Licence 1 | | | | |
| Mathématiques, Informatique, Sciences Physiques pour l'Ingénieur et Chimie (MISPIC) | TD | 8h | Outils Numériques - L ^A T _E X | 2019-2020 |
| Mathématiques, Informatique, Sciences Physiques pour l'Ingénieur et Chimie (MISPIC) | TD/TP | 32h | Outils Informatiques - Python | 2019-2020 |
| Mathématiques, Informatique, Sciences Physiques pour l'Ingénieur et Chimie (MISPIC) | TP | 16h | Bases de Données Relationnelles | 2019-2020 |
| Informatique | TP | 14h | Environnement Informatique et Internet | 2022-... |
| Informatique | CM/TD | 10h/10h | Analyse I | 2022-... |
| Niveau Licence 2 | | | | |
| Mathématiques et Informatiques Appliqués aux Sciences Humaines et Sociales (MIASHS) | CM/TD | 21h/19h | Algèbre Linéaire & Analyses de Données | 2021-... |
| Informatique | CM/TD | 10h/10h | Algèbre | 2022-... |
| Niveau Licence 3 | | | | |
| Informatique Décisionnelle et Statistiques (IDS) | TD/TP | 12h/7h | Statistiques Inférentielles I | 2020-2022 |
| Informatique Décisionnelle et Statistiques (IDS) | TD | 19h | Statistiques Inférentielles II | 2021-2022 |
| Informatique Décisionnelle et Statistiques (IDS) | CM/TD/TP | 21h/9h/9h | Systèmes d'Informations et Bases de Données Relationnelles | 2020-2022 |

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|---|----|-------|---------------------------------|-----------|
| Mathématiques et Informatiques Appliqués aux Sciences Humaines et Sociales (MIASHS) | TD | 10.5h | Modèles Linéaires | 2020-... |
| Mathématiques et Informatiques Appliqués aux Sciences Humaines et Sociales (MIASHS) | TD | 10.5h | Sondages | 2020-2022 |
| Informatique | TP | 14h | Compilation et Analyse Lexicale | 2022-... |

| Master - Formation | Nature | Instruction's hours | Course | Years |
|---|----------|---------------------|--|-----------|
| Niveau Master 1 | | | | |
| Machine Learning and Data Mining (MLDM, UJM) | CM/TD/TP | 3h/3h/4h | Convex Optimization and Operational Research (English) | 2016-2019 |
| Colour in Informatics and Media Technology (COSI, UJM) | CM | 5h | Introduction to Machine Learning (English) | 2016-2017 |
| Informatique | TP | 14h | Statistiques Inférentielles | 2020-2022 |
| Informatique | TP | 14h | Complexité | 2022-... |
| Mathématiques et Informatiques Appliqués aux Sciences Humaines et Sociales (MIASHS) | CM/TD | 10h/6h | Introduction to Supervised Machine Learning | 2022-... |
| Niveau Master 2 | | | | |
| Statistique et Informatique pour la Science des Données (SISE) | CM/TD | 7h/14h | Fouilles de Données Massives | 2020-2022 |
| Statistique et Informatique pour la Science des Données (SISE) | TD | 21h | Fouilles de Données Massives | 2022-... |
| Business Intelligence et Big Data (BIBD) | CM/TD/TP | 7h/14h | Fouilles de Données Massives | 2020-2022 |
| Business Intelligence & Analytics (BI&A) | CM/TD | 6h/15h | Machine Learning | 2022-... |
| Machine Learning and Intelligence Artificielle (MALIA) | CM/TD | 4.5h/6h | Recent Advances in Machine Learning | 2022-... |

Internships Supervision (Excluding Master Students Research Internship)

Kenan Alsafadi

University Lumière Lyon 2, 1st year of Bachelor in Computer Science (2022 - 2023)

Topic : *"Introduction to Machine Learning"*

Duration : 2 weeks

Julien Bastian

University Lumière Lyon 2, 3rd year of Bachelor MIASHS - IDS (2021-2022)

Topic : *"Learning Representations for Wavelets, an Application to ECG Classification"*

Duration : 8 weeks

Sophie Lepennetier

University Lumière Lyon 2, 2nd year of Bachelor MIASHS - Cognitive Sciences (2021-2022)

Topic : *"Study of data studying attraction as a function of odor perception"*

Duration : 6 weeks

Matteo Vernay

University Lumière Lyon 2, 2nd year of Bachelor MIASHS - Psychology (2021-2022)

Topic : *"Introduction to Machine Learning with an Application to Ranking Problems"*

Duration : 6 weeks

Léa Abriel

University Lumière Lyon 2, 2nd year of Bachelor MIASHS - Economy-Management (2020-2021)

Topic : *"Machine Learning for Fraud Detection with Ranking Methods"*

Duration : 6 weeks

Mathilde Rodrigues Da Rocha

University Lumière Lyon 2, 2nd year of Bachelor MIASHS - Cognitive Sciences (2020-2021)

Topic : *"Study of Graph Neural Networks, applied to Cognitive Sciences"*

Duration : 5 weeks

Co-Supervisor : Antoine Gourru

Work-Study Program Supervision (M2 Students)

Cyprien Godin

University Lumière Lyon 2, 2nd year of Master MALIA (2022-2023)

Topic : *"Survival Models for Renal Transplantation"*

Company : IGL (Lyon)

Mohamed Aziz Rais

University Lumière Lyon 2, 2nd year of Master Data Mining (2021-2022)

Topic : *"Novelty Detection for Predictive Maintenance"*

Company : MODIS (Lyon)

TER Supervision (M2 Students)

Cyprien Godin

University Lumière Lyon 2, 2nd year of Master MALIA (2022-2023)

Topic : *"Time Dependent Variable in Cox Model"*

Mohamed Aziz Rais

University Lumière Lyon 2, 2nd year of Master Data Mining (2021-2022)

Topic : *"Learning from Imbalanced Data with the Nearest-Neighbors Algorithm"*

Thibaut Martinet

University Lumière Lyon 2, 2nd year of Master Data Mining (2021-2022)

Topic : *"An Introduction to Domain Adaptation for Binary Classification"*

Farida Benchalal & Nour-Dass Hammadi

University Lumière Lyon 2, 2nd year of Master Data Mining (2020-2021)

Topic : *"Learning from Imbalanced Data with the Nearest-Neighbors Algorithm"*

Involvement in Research Projects and Contracts

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|-------------------|---|
| 01/2022 - 12/2025 | ANR DIKé Project - Project Member Title : <i>Bias, fairness and ethics of compressed NLP models</i> Project Leader : Christophe Gravier (LabHC, UMR CNRS 5516) |
| 09/2023 - 09/2025 | FIL Project - Co Leader with Emilie Morvant (LabHC) |
| 01/2022 - 01/2023 | FIL Project - Co Leader with Emilie Morvant (LabHC) |
| 04/2020 - 08/2020 | ACADEMICS Poject (Call Scientific Breakthrough) - Project Member as Post-Doctoral Researcher |
| 09/2019 - 03/2020 | ANR LIVES Project - Project Member as Post-Doctoral Researcher Title : <i>Learning with Interacting Views</i> |

Services, Reviews and Committe

Administrative responsibilities

| | |
|---------------|--|
| 09/2022 - ... | Responsible of the First Year of a Computer Science Degree - University Lumière Lyon 2 |
| 05/2022 - ... | Board Member of the Institute of Communication (ICOM) - University Lumière Lyon 2 |
| 11/2021 - ... | Co-Responsible of Scientific Seminars - ERIC Laboratory Co-Responsible : Mohamed-Lamine MESSAI |

Program Comittee Member

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|------|---|
| 2023 | Conférence sur l'Apprentissage Automatique (CAp) |
| 2023 | Extraction et Gestion des Connaissances (EGC, Démo) |
| 2022 | International Conference on Information Management and Big Data (SIM-Big) |
| 2022 | Extraction et Gestion des Connaissances (EGC, Démo) |
| 2021 | International Conference on Information Management and Big Data (SIM-Big) |

Organization Committe Member

| | |
|------|--|
| 2023 | Extraction et Gestion des Connaissances (EGC) |
| 2021 | Conférence sur l'Apprentissage Automatique (CAp) |
| 2018 | Multidisciplinary International Social Networks Conference (MISNC) |

Review Activities

Conferences

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|------|--|
| 2022 | European Conference on Machine Learning (ECML) |
| 2021 | Extraction et Gestion des Connaissances (EGC) |

| | |
|------|---|
| 2019 | International Conference on Artificial Intelligence, Information Processing and Cloud Computing (AIIPCC) International Conference on Artificial Intelligence and Statistics (AI-STATS) |
| 2018 | European Conference on Machine Learning (ECML) |
| 2017 | European Conference on Machine Learning (ECML) |

Journals

| | |
|------|--|
| 2023 | Computer and Information Sciences (JKSU) Evolutionary Intelligence (SNAPP) Pattern Recognition Letter (PRL) |
| 2022 | Applied Sciences (MDPI) Big Data, Cloud-Based Data Analysis and Learning Systems (MDPI) Computer and Information Sciences (JKSU) International Journal of Environmental Research and Public Health (MDPI) Mathematics (MDPI) Pattern Recognition Letter (PRL) Sensors (MDPI) |
| 2021 | Expert Systems With Applications (ESWA) Electronics (MDPI) Mathematics (MDPI) Pattern Recognition Letter (PRL) Transactions on Pattern Analysis and Machine Learning (TPAMI) |
| 2020 | Applied Stochastic Models in Business Industry (ASMB) |

Students Supervision : Post-Doc, PhD et Master Research Internship

PhD Supervision

Irina Proskurina

PhD started in October 2022 on the topic : *"Towards an Ethical Compression of Deep Learning Models"*.

PhD funded by the ANR DIKé Project

Supervision : Julien Velcin (Professor, Director) and Guillaume Metzler

Eliz Peyraud

PhD started in January 2022 on the topic : *"Estimating the Life Span of an Organ After Transplantation"*.

Industrial PhD funded by the French ANRT and in partnership with Institut Georges Lopez (IGL)

Supervision : Julien Jacques (Professor, Director) and Guillaume Metzler

Supervision of M1 and M2 Student Research Internships

TBS (M1)

Ecole Polytech Lyon, 4th year of School Engineer.

Topic : ""

Duration : 4 months

Co-Supervisor : Irina Proskurina & Julien Velcin

Julien Bastian (M1)

University Lyon 2, 1st year of Master MIASHS (2023)

Topic : *"PAC-Bayesian Domain Adaptation"*

Duration : 5 months

Co-Supervisor : Emilie Morvant

Alexiane Fraisse (M1)

University Jean-Monnet, 1st year of Master MLDM (2022)

Topic : *"Random Fourier Features for PAC-Bayesian Domain Adaptation"*

Duration : 4 months

Co-Supervisors : Emilie Morvant and Paul Viallard

Irina Proskurina (M2)

University Clermont-Ferrand (2022)

Topic : *"Towards an Ethical Compression of Deep Learning Models"*

Duration : 6 months

Co-Supervisor : Julien Velcin

Publications

International Conferences

6. I.Proskurina, G.Metzler , J.Velcin *The Other Side of Compression : Measuring Bias in Pruned Transformers*, In Proceedings in the 20th International Symposium on Intelligent Data Analysis (IDA), Louvain-La-Neuve, Belgique, Avril 2023 (core ranking B).

5. L.Gautheron, P.Germain, A.Habrard, **G.Metzler**, E.Morvant, M.Sebban and V.Zantedeschi, *Landmark-based Ensemble Learning with Random Fourier Features and Gradient Boosting*, In the 31st European Conference on Machine Learning & Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD), Ghent, Belgique, Septembre 2020 (core ranking A).
4. R.Viola, R.Emonet, A.Habrard, **G.Metzler** and M.Sebban, *Learning from Few Positives : a Provably Accurate Metric Learning Algorithm to Deal with Imbalanced Data*, In the 29th International Joint Conference on Artificial Intelligence (IJCAI), Yokohama, Japon, Juillet 2020 (core ranking A*).
3. R.Viola, R.Emonet, A.Habrard, **G.Metzler**, S.Riou and M.Sebban, *An Adjusted Nearest Neighbor Algorithm Maximizing the F-Measure from Imbalanced Data*, In Proceedings in The 31st International Conference on Tools with Artificial Intelligence (ICTAI), Portland, Oregon, USA, Novembre 2019 (core ranking B).
2. K.Bascol, R.Emonet, E.Fromont, A.Habrard, **G.Metzler** and M.Sebban, *From Cost-Sensitive Classification to Tight F-Measure Bounds*, In Proceedings in The 22nd International Conference on Artificial Intelligence and Statistics (AISTATS), Naha, Okinawa, Japon, Avril 2019 (core ranking A).
1. **G.Metzler**, X.Badiche, B.Belkasmi, E.Fromont, A.Habrard and M.Sebban, *Tree-based Cost Sensitive Methods for Fraud Detection in Imbalanced Data*, In Proceedings in the 17th International Symposium on Intelligent Data Analysis (IDA), 's-Hertogenbosch, Pays-Bas, Octobre 2018 (core ranking A).

International Journals

2. R.Viola, R.Emonet, A.Habrard, **G.Metzler**, S.Riou and M.Sebban, *An Adjusted Nearest Neighbor Algorithm Maximizing the F-Measure from Imbalanced Data*, International Journal on Artificial Intelligence Tools (IJAIT), January 2021 (Q3).
1. **G.Metzler**, X.Badiche, B.Belkasmi, E.Fromont, A.Habrard and M.Sebban, *Learning Maximum Excluding Ellipsoids with Theoretical Guarantees*, Pattern Recognition Letter (PRL), September 2018 (Q2).

National Conferences

8. T. Martinet et **G. Metzler**, *LAMBDA : Landmark Alignment and Mixture-Based Domain Adaptation*, Conférence pour l'Apprentissage Automatique (CAp), Strasbourg, Juillet 2023.
7. E.Peyraud, J.Jacques, **G.Metzler** et A.Lopez, *Mélange de Modèles de Cox avec des Données Hétérogènes*, 54 ème Journées de la Statistique de la Société Française de Statistique (JdS), Bruxelles, Juillet 2023.
6. E.Peyraud, J.Jacques, **G.Metzler** et A.Lopez, *Modèle de Cox avec des Données Hétérogènes*, 53 ème Journées de la Statistique de la Société Française de Statistique (JdS), Lyon, Juin 2022.

5. L.Gautheron, P.Germain, A.Habrard, **G.Metzler**, E.Morvant, M.Sebban and V.Zantedeschi, *Apprentissage d'ensemble basé sur des points de repères avec des caractéristiques de Fourier aléatoires et un renforcement du gradient*, Conférence pour l'Apprentissage Automatique (CAp), Vannes, Juin 2020.
4. R.Viola, R.Emonet, A.Habrard, **G.Metzler** and M.Sebban, *MLFP : Un algorithme d'apprentissage de métrique pour la classification de données déséquilibrées*, Conférence pour l'Apprentissage Automatique (CAp), Vannes, Juin 2020.
3. R.Viola, R.Emonet, A.Habrard, **G.Metzler**, S.Riou and M.Sebban, *Une version corrigée de l'algorithme des plus proches voisins pour l'optimisation de la F-mesure dans un contexte déséquilibré*, Conférence pour l'Apprentissage Automatique (CAp), Toulouse, Juillet 2019.
2. K.Bascol, R.Emonet, E.Fromont, A.Habrard, **G.Metzler** and M.Sebban, *Un algorithme d'optimisation de la F-Mesure par pondération des erreurs de classification*, Conférence pour l'Apprentissage Automatique (CAp), Rouen, Juin 2018.
1. **G.Metzler**, X.Badiche, B.Belkasmi, E.Fromont, A.Habrard and M.Sebban, *Apprentissage de Sphères Maximales d'exclusion avec Garanties Théoriques*, Conférence pour l'Apprentissage Automatique (CAp), Grenoble, Juin 2017.

Workshops

A Detailed List of Taught Courses

| Année | Niveau | Diplôme | Intitulé | CM/TD/TP | Effectifs CM/TD/TP | Nb groupes | Equivalent heures TD |
|-----------|-----------|---|--|-------------|-----------------------|---------------|-------------------------|
| 2017-2018 | Master 1 | Machine Learning & Data Mining (MLDM, UJM) | Convex Optimization and Operational Research | 3h/3h/4h | 48/48/24 | 2 gr. TP | 14.8h |
| 2018-2019 | Master 1 | Machine Learning & Data Mining (MLDM, UJM) | Convex Optimization and Operational Research | 3h/3h/4h | 48/48/24 | 2 gr. TP | 14.8h |
| 2019-2020 | Licence 1 | Mathématiques, Informatique, Sciences Physiques pour l'Ingénieur et Chimie (MISPIC, UJM) | Outils Numériques - \LaTeX | 0h/0h/8h | 0/0/16 | 4 gr. TP | 20.7h |
| 2019-2020 | Licence 1 | MISPIC, UJM | Outils Informatiques - Python | 0h/16h/16h | 0/16/16 | 3 gr. TP | 48h |
| 2019-2020 | Licence 1 | MISPIC, UJM | Bases de Données Relationnelles | 0h/0h/16h | 16 | 4 gr. TP | 42.7h |
| 2020-2021 | Licence 3 | Informatique Décisionnelle et Statistiques (IDS, Univ. Lyon 2) | Bases de Données Relationnelles | 21h/8h/9h | 46/46/23 | 2 gr. TP | 58h |
| 2020-2021 | Licence 3 | Mathématiques et Informatiques Appliqués aux Sciences Humaines et Sociales (MIASHS, Univ. Lyon 2) | Statistiques Inférentielles | 0h/12h/7h | 46/23 | 1 gr. TP | 18.8h |
| 2020-2021 | Licence 3 | MIASHS, Univ. Lyon 2 | Modèles Linéaires | 0h/10.5h/0h | 24 | 1 gr. TD | 10.5h |
| 2020-2021 | Licence 3 | MIASHS, Univ. Lyon 2 | Sondages | 0h/10.5h/0h | 24 | 1 gr. TD | 10.5h |
| 2020-2021 | Master 1 | Informatique, Univ. Lyon 2 | Statistiques Inférentielles | 0h/14h/0h | 20 | 1 gr. TD | 14h |
| 2020-2021 | Master 2 | Statistique et Informatique pour la Science des Données (SISE, Univ. Lyon 2) | Fouilles de Données Massives | 3.5h/14h/0h | 24/24 | 1 gr. TD | 20h |

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|-----------|-----------|--|--|-------------|----------|--------------|-------|
| 2020-2021 | Master 2 | Business Intelligence & Big Data (BI&BD, Univ. Lyon 2) | Fouilles de Données Massives | 3.5h/14h/0h | 24/24 | 1 gr. TD | 20h |
| 2021-2022 | Licence 2 | MIASHS, Univ. Lyon 2 | Analyse de Données | 21h/12h/7h | 90/24/24 | 1 gr. TD/TP | 51h |
| 2021-2022 | Licence 3 | IDS, Univ. Lyon 2 | Bases de Données Relationnelles | 21h/8h/9h | 46/46/23 | 2 gr. TP | 58h |
| 2021-2022 | Licence 3 | MIASHS, Univ. Lyon 2 | Statistiques Inférentielles | 0h/12h/7h | 46/23 | 2 gr. TP | 26h |
| 2021-2022 | Licence 3 | MIASHS, Univ. Lyon 2 | Modèles Linéaires | 0h/10.5h/0h | 24 | 3 gr. TD | 31.5h |
| 2021-2022 | Licence 3 | MIASHS, Univ. Lyon 2 | Sondages | 0h/10.5h/0h | 24 | 2 gr. TD | 21h |
| 2021-2022 | Master 1 | Informatique, Univ. Lyon 2 | Statistiques Inférentielles | 0h/14h/0h | 20 | 1 gr. TD | 14h |
| 2021-2022 | Master 2 | SISE, Univ. Lyon 2 | Fouilles de Données Massives | 3.5h/14h/0h | 24/24 | 1 gr. TD | 20h |
| 2021-2022 | Master 2 | BI&BD, Univ. Lyon 2 | Fouilles de Données Massives | 3.5h/14h/0h | 24/24 | 1 gr. TD | 20h |
| 2022-2023 | Licence 1 | Informatique, Univ. Lyon 2 | Environnement Informatique et Internet | 0h/14h/0h | 35 | 2 gr TD | 28h |
| 2022-2023 | Licence 1 | Informatique, Univ. Lyon 2 | Analyse I | 10h/10h/0h | 70/35 | 2 gr TD | 35h |
| 2022-2023 | Licence 2 | Informatique, Univ. Lyon 2 | Algèbre | 10h/10h/0h | 35/35 | 1 gr TD | 25h |
| 2022-2023 | Licence 2 | MIASHS, Univ. Lyon 2 | Analyse de Données | ... | 90/24/24 | ... gr TD/TP | ... h |
| 2022-2023 | Licence 3 | Informatique, Univ. Lyon 2 | Compilation et Analyse Lexicale | 0h/14h/0h | 24 | 1 gr TD | 14h |
| 2022-2023 | Master 1 | Informatique, Univ. Lyon 2 | Complexité | 0h/18h/0h | 24 | 1 gr. TD | 18h |
| 2022-2023 | Master 1 | MIASHS, Univ. Lyon 2 | | 10h/6h/0h | 24/24 | 1 gr. TD | 21h |
| 2022-2022 | Master 2 | SISE, Univ. Lyon 2 | Fouilles de Données Massives | 0h/21h/0h | 24/24 | 1 gr. TD | 21h |
| 2022-2023 | Master 2 | BI&A, Univ. Lyon 2 | Machine Learning | 6h/15h/0h | 24/24 | 1 gr. TD | 24h |

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|-----------|----------|--|--|------------|-------|----------|-------|
| 2022-2023 | Master 2 | Machine Learning and Intelligence Artificielle (MALIA), Univ. Lyon 2 | Recent Advances in Machine Learning | 4.5h/6h/0h | 24/24 | 1 gr. TD | 12.8h |
|-----------|----------|--|--|------------|-------|----------|-------|

EM Lyon Business School

I give a list of activities started during the last year of my PhD. These activities consist in giving some courses in Data Analysis and Statistics and in the supervision students for the writing of their thesis during their internship at the end of their Bachelor's degree.

Teaching

Here is a list of courses given in the school. The language of the title also indicates the language in which the course is taught

| Bachelor | Type | Instruction's hours | Course | Years |
|----------|-------|---------------------|---|-----------|
| BBA 1 | CM/TD | 60h | Mathématiques et Statistiques Appliquées à la Gestion | 2020-2022 |
| BBA 1 | CM/TD | 72h | Analyse de Contenus et de Données | 2019-2022 |

| Master of Science | Type | Instruction's hours | Course | Years |
|---|-------|---------------------|--------------------------------------|-----------|
| Msc in Finances | CM/TD | 30h | Financial Mathematics and Statistics | 2022-2023 |
| Msc in Finances | CM/TD | 30h | Intro to Data Analytics | 2022-2023 |
| Msc in Supply Chain & Purchasing Management | CM/TD | 24h | Mathematics for Supply Chain | 2022-2023 |

| Program <i>Grandes Ecoles</i> | Type | Instruction's hours | Course | Years |
|-------------------------------|------|---------------------|---|-----------|
| PGE 1 | TD | 12h | Introduction to Business Statistics and Data Analysis | 2020-2021 |

Internships Supervision of 4th year Bachelor Students

List of students followed for the writing of their thesis during their internship at the end of their Bachelor's degree.

Yuren Jin

Company : Western Exchange (2022)

Domain : *Digital Transformation*

Topic : *"Digital Transformation in the Education Consulting Industry"*

Xi Xu

Company : Friends Marketing (2022)

Domain : *Supply Chain*

Topic : *"Supply Chain and Logistic under Global Trends"*

Wen Hau Eng

Company : Huobi Global (2022)

Domain : *Cryptocurrency*

Topic : *"The Risk Management Difference Between Cryptocurrency and Stock Market"*

Haimei Hu

Company : Bel Group (2022)

Domain : *BlockChain*

Topic : *"A Study on the Relationship Between Diversification and Performance of a Chinese Dairy Companies Based on Financial Analysis Perspective"*

Jingru Shen

Company : Poizon (2022)

Domain : *User Experience*

Topic : *"The Relationship Between user Experience and User Retention in E-Commercial Industry"*

Cécile Carrel

Company : Amazon (Germany) (2021)

Domain : *Process Optimization*

Topic : *"Optimization of Processes between the Technical Team and the Design Team"*

Alysée Durand Robin

Company : Jeager-LeCoultre (2021)

Domain : *Digital Marketing*

Topic : *"The challenges of digital marketing for the luxury goods industry"*

Eloïse Monnet

Company : Mon Building (2021)

Domain : *Digital Marketing*

Topic : *"Study of the evolution of consumer habits in co-living and co-working spaces in times of crisis"*

Alexane Royer

Company : IPSOS (2021)

Domain : *Data Analysis and Survey*

Topic : *"The development of DIY tools in the market research sector"*

Mingxiang Xia

Company : Roland Berger (2021)

Domain : Business Analyst

Topic : *"Optimization of Performance Evaluation System Based on Game Theory"*