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## Work experience

Sep., 2016 – **CREATIS laboratory - Villeurbanne, France**

present **Associate professor, Images and models team.**

Working on the application of machine learning to medical imaging.

- Epileptic lesion detection and prostate cancer mapping.
- Brain decoding for heterogeneous subjects.
- Grant holder of INS2I JCJC and CNRS Imag'In calls for projects.
- Grant holder of Janssen Horizon "Artificial intelligence and diseases" call for projects.

Feb., 2016 – **Hubert Curien Laboratory - Saint-Etienne, France**

Aug., 2016 **Post-doctoral fellow, Data Intelligence team.**

- Working on LIVES project (Multiview learning with interesting views)
- Collaboration with LIP6, LIF, Picxel, Timone Neuroscience Institute.

2015 – 2016 **LIPN laboratory - Paris, France**

**Research assistant, Machine Learning and Applications team.**

- Working on COCLICO project (Collaborative classification with incremental knowledge)
- Applications to satellite images.

2012 – 2015 **LIPN laboratory - Paris, France**

**PhD student, Machine Learning and Applications team.**

- Theoretical and algorithmic contributions to transfer and unsupervised learning
- Teaching classes in machine learning, creation of a new course
- Qualification in 26th, 27th and 61st sections.

May., 2012 – **Altatech Semiconductor - Montbonnot Saint-Martin, France**

Sep., 2012 **Internship, Software Development department.**

- Conception of databases
- Automated collection of real-time production data
- Statistical data analysis.

2009 – 2011 **Central hospital of Darnytskiy district - Kiev, Ukraine (part-time)**

**Software developer, Automatic Systems department.**

- Software developing for medical systems
- Database design
- Automation of data analysis.

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## Education

2012 – 2015 **PhD in Computer Science, specialization in Data Science**

**Computer Science Laboratory of Paris North University (LIPN), France**  
**Machine Learning and Applications team.**

- PhD Supervisor: Pr. Younès Bennani
- Subject: Non-negative matrix factorization for unsupervised transfer learning
- Jury: Stéphane Canu, Marc Sebban, Patrick Gallinari, Vincent Lemaire, Christophe Fouqueré, Basarab Matei.

2011 – 2012 **Engineer degree, specialization in Mathematics and Decision Making**

**Ecole Centrale de Lyon - Ecully, France.**

- Merit scholarship
- Average grade: B

2010 – 2012 **Master degree, specialization in Intelligent Systems for Decision Making**  
**NTUU "Kyiv Polytechnical Institut" - Kiev, Ukraine.**

- Rank: Top 5
- Average grade: 4.55/5

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## Research supervision

- Sept., 2017 – **PhD student, CREATIS, INSA de Lyon**  
present **Provably accurate metric learning for heterogeneous medical imaging: application to multi-view learning and domain adaptation**, *Sofiane Dhouib*.  
◦ Government scholarship      ◦ Co-supervision with Carole Lartizien (CR1 CNRS)
- Febr., 2017 – **Master 2 student internship, CREATIS, INSA de Lyon**  
July, 2017 **Domain adaptation for prostate cancer mapping**, *Léo Gautheron*.  
◦ Presentation at GRETSI'17 seminar      ◦ Contribution to Python POT toolbox  
◦ Co-supervision with Carole Lartizien (CR1 CNRS)      ◦ Highest grade in one's year
- March, 2017 – **Master 1 student internship, CREATIS, INSA de Lyon**  
July, 2017 **Outlier detection for epileptic lesion detection**, *Dimitrios Tsolakidis*.  
◦ Defended with grade 14      ◦ Co-supervision with Carole Lartizien (CR1 CNRS)
- May, 2014 – **Master 2 student internship, LIPN, Paris 13 University**  
August, 2014 **Analysis of factors in multilayer NMF**, *Catherine Sergent*.  
◦ Defended with grade 17      ◦ Co-supervision with Younès Bennani

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## Scientific responsibilities

- 2018 **Program committee at IJCAI**, *International Joint Conference on Artificial Intelligence*, 13-19th of July, Stockholm, Sweeden.
- 2018 **Invited speaker at CIFSD**, *Conférence Internationale Francophone sur la Science des Données*, 23-25th of April, Tanger, Morocco.
- 2017 **Program committee at CAP**, *French Conference on Machine Learning*, 28-30th of June, Grenoble, France.
- 2016 **Program committee at AAFD-SFC**, *French Conference on Data Science*, 22-26th of May, Marrakesh, Morocco.
- 2015 **Organization committee of ALML**, *International Workshop on Advances in Learning from/with Multiple Learners*, July 16th, Killarney, Ireland.
- 2014 **Organization committee of EPAT**, *Summer School on Machine Learning*, 7-12 June, Carry-le-Rouet, France.

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## Teaching experience

- 2016 - present **INSA de Lyon, Associate professor, First cycle department**.  
◦ Algorithms and programming 1&2, 230h  
◦ Engineering projects supervision, 25h  
◦ Introduction to databases, 25h  
◦ Digital tools, 25h.
- 2012 - 2015 **Paris 13 University, Teaching assistant, Licence 1 - 3, Master 1 - 2**.  
◦ Imperative programming, Licence 1, 36h  
◦ Architecture and operational systems, Licence 2, 25h  
◦ Data visualization, Licence 3, 20h  
◦ Software engineering, 2nd year of Sup'Galilée engineering school, 13h  
◦ Matrix methods for data mining and Numerical data analysis, Master 1, 54h  
◦ Numerical data analysis and Neural networks, Master 2, 44h.