# Ievgen Redko

Associate professor at
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*Nationality: French*
*Age: 29*

## Work experience

**Sep., 2018 – present**
**Hubert Curien laboratory - Saint-Etienne, France**
**Associate professor, Data Intelligence team**.
Working on statistical machine learning.
- Transfer learning and domain adaptation.
- Unsupervised learning.
- Applications to healthcare and well-being.

**Sep., 2016 – Aug., 2018**
**CREATIS laboratory - Villeurbanne, France**
**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 – Aug., 2016**
**Hubert Curien Laboratory - Saint-Etienne, France**
**Post-doctoral fellow, Data Intelligence team**.
- Working on LIVES project (Multiview learning with interecting 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 – Sep., 2012**
**Altatech Semiconductor - Montbonnot Saint-Martin, France**
**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.

## 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.

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| 2011 – 2012 | **Engineer degree, specialization in Mathematics and Decision Making**<br>**Ecole Centrale de Lyon - Ecully, France**.<br>◦ Merit scholarship ◦ Average grade: B |
| 2010 – 2012 | **Master degree, specialization in Intelligent Systems for Decision Making**<br>**NTUU "Kyiv Polytechnical Institut" - Kiev, Ukraine**.<br>◦ Rank: Top 5 ◦ Average grade: 4.55/5 |

## Research supervision

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

## Scientific responsibilities

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| 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. |

## Teaching experience

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