Ievgen Redko

Associate professor at Hubert Curien Laboratory

Université Jean Monnet de Saint-Étienne
18 rue du Professeur Lauras
42000 Saint-Etienne - France
✉ *ievgen.redko@univ-st-etienne.fr*
Age: 31

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.
- Optimal transport in machine learning
- Applications to healthcare.

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.
- Prostate cancer mapping.
- Grant holder of INS2I JCJC and CNRS Imag'In calls for projects.

Feb., 2016 – Aug., 2016 **Hubert Curien Laboratory - Saint-Etienne, France**
Post-doctoral fellow, Data Intelligence team.
Multiview learning with interecting views - Collaboration with LIP6, LIF, Picxel, INT

Oct., 2012 – Sep., 2015 **Computer Science Laboratory of Paris 13 University (LIPN) - Paris, France**
PhD student, Machine Learning and Applications team.
Topic: Non-negative matrix factorization for unsupervised transfer learning.

Research activities

Student supervision

Dec., 2019 – present **PhD student, CEA LIST**
Few shot learning: Application to object detection and semantic segmentation, *Quantin Bouinot*.
- Co-supervision with Amaury Habrard (PR UJM), Romaric Audigier (Researcher engineer CEA)

Sep., 2019 – present **PhD student, THALES**
Anomaly detection with deep metric learning, *Yevhenii Zotkin*.
- CIFRE scholarship
- Co-supervision with Marc Sebban (PR UJM)

Sep., 2017 – present **PhD student, CREATIS, INSA de Lyon**
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)

Sep., 2018 – present **PhD student, Physics lab, ENS de Lyon**
Transfer learning on graphs, *Yacouba Kaloga*.
- Co-supervision with P. Borgnat (DR CNRS), M. Foare (MCU ENS), A. Habrard (PR UJM)

Feb., 2017 – Aug., 2020 **Internships**.
- Nina Vesseron: Game theory and machine learning
- Deepakumar Moorthy: AI and creativity for design
- Robin Khatri: Machine learning for bone porosity estimation
- Sixian Xu: Machine learning for single-pixel camera
- Léo Gautheron: Optimal transport for prostate cancer mapping
- Dimitrios Tsolakidis: Multi-view learning for epilepsy lesion detection

Community service

Conferences.
- **Reviewer**: ICML'20, NeurIPS'20,'19 (best reviewer prize), IJCAI'18 (distinguished PC prize)
- **Program committee**: IJCAI'18, National Conference on Machine Learning (CAp)

Journals.
- **Reviewer**: Annals of Statistic, JMLR, TKDE, Neurocomputing, Pattern recognition

Software.
- **Contributor**: Python Optimal Transport toolbox

Selected recent publications

[1] Sofien Dhouib, **Ievgen Redko**, and Carole Lartizien. Margin-aware adversarial domain adaptation with optimal transport. In *ICML*, pages 4619–4629. 2020.

[2] Sofien Dhouib, **Ievgen Redko**, Tanguy Kerdoncuff, Rémi Emonet, and Marc Sebban. A swiss army knife for minimax optimal transport. In *ICML*, pages 7613–7622. 2020.

[3] **Ievgen Redko**, Amaury Habrard, and Marc Sebban. On the analysis of adaptability in multi-source domain adaptation. *Machine Learning*, 108(8-9):1635–1652, 2019.

[4] **Ievgen Redko** and Charlotte Laclau. On fair cost sharing games in machine learning. In *AAAI*, pages 4790–4797, 2019.

[5] **Ievgen Redko**, Nicolas Courty, Rémi Flamary, and Devis Tuia. Optimal transport for multi-source domain adaptation under target shift. In *AISTATS*, pages 849–858, 2019.

[6] Sofiane Dhouib and **Ievgen Redko**. Revisiting (\epsilon, \gamma, \tau)-similarity learning for domain adaptation. In *NIPS*, pages 7408–7417, 2018.

[7] Charlotte Laclau, **Ievgen Redko**, Basarab Matei, Younès Bennani, and Vincent Brault. Co-clustering through optimal transport. In *ICML*, pages 1955–1964, 2017.