Dorian KODELJA

PhD Student in Natural Language processing

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Education

2016–2019	**PhD in Natural Language Processing** . CEA LIST Institute, Paris, France
2015–2016	**Master Degree in Data mining & knowledge Management**. Graduate School of Engineering of the University of Nantes, France
2013–2016	**Computer Science Degree**, Specialisation in Business Intelligence. Graduate School of Engineering of the University of Nantes, France
2011-2013	**Bachelor degree in Science**. Graduate School of Engineering of the University of Nice, France
2011	**Secondary School Diploma**, *Cum laude*, Specialization in Engineering and mathematics. Deodat De Severac High School,Toulouse, France

Publications

Journal

PLOS ONE (accepted) — ***Multiagent Cooperation and Competition with Deep Reinforcement Learning***.

Ardi Tampuu, Tambet Matiisen, Dorian Kodelja, Ilya Kuzovkin, Kristjan Korjus, Juhan Aru, Jaan Aru, Raul Vicente - PLOS ONE 2016 **Impact Factor: 3.06**

`https://arxiv.org/abs/1511.08779`

Technical Reports

88milsms — ***Visualisation et analyse du réseau socio-sémantique 88milSMS***.

Dorian Kodelja and Martin Guerre

`http://88milsms.huma-num.fr/references/guerre-martin_kodelja-dorian.pdf`

Scientific & Computer Skills

Languages	Python, Java, C/C++, Matlab, Bash
Software	Git, GCC, Make, OpenCV, Eclipse, Visual Studio
Scientific softwares	NLTK, numpy, scikit-learn
Machine learning tools	Tensorflow, Theano, Caffe, WEKA
Machine Learning skills	Kernel methods, convolutionnal and recurrent neural networks, domain adaptation, logistic regression, dim. reduction, genetic algorithm, reinforcement learning, natural language processing, computer vision

Languages

French Native

English Fluent, TOEIC 975/990

German Basics

Detailed Experience

Internships

March 2016 - Sept 2016 **Emotion Recognition in videos using CNNs**, *CEA LIST, Paris, France*, Final-year internship.

Instructors   Hervé Le Borgne (CEA LIST)

Description   Emotion detection in a natural context using Face detection and tracking and convolutionnal neural networks (CNNs)

June 2015 - Sept 2015 **Multi-agent reinforcement learning**, *Computational Neuroscience Lab, Tartu, Estonia*.

Instructor   Raul Vicente

Description   I adapted Deepmind Deep Reinforcement Learning code to allow multiple agents to learn to compete or collaborate on Atari2600 games; I also experimented with Q-Learning to allow communication to emerge between agents.

June 2015 **3rd Baltic-Nordic Summer School on Neuroinformatics**, *Multiscale computational neuroscience: Neurons, networks and systems*.
Computational Neuroscience Lab, Tartu, Estonia

Projects

2015 - 2016 **Automated computer forensics**.

I experimented multiple approaches to use human knowledge to improve feature selection on a network forensic dataset, mostly using SVM and genetic algorithms

2014 - 2015 **Visualisation and analysis of the socio-semantic network of an SMS corpus**.

I developed an analysis and visualisation solution with NLTK, SQLServer and Gephi to study the socio-semantical communities inside a corpus of 88000 SMS.

References

CEA LIST

Hervé Le Borgne, *Senior Research Scientist in computer vision*.
CEA Saclay - Nano-INNOV, Bat 861 - PC 173, F91191 Gif Sur Yvette Cedex France

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Olivier Ferret, *Senior Research Scientist in Natural Language Processing*.
CEA Saclay - Nano-INNOV, Bat 861 - PC 173, F91191 Gif Sur Yvette Cedex France

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Computational Neuroscience Lab, Tartu

Raul Vicente, *Senior Research Scientist and group leader of the Computational Neuroscience Lab*.
Ülikooli 17 – 208, Tartu 51014, Estonia

raulvicente@gmail.com