Alexis PISTER
PhD student in dynamical social networks analysis (Inria & Telecom Paris)

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Born the 10th of November, 1996

🎓 EDUCATION

2019 - 2022	PhD in analysis and visualization of **historical dynamical social networks**, Inria Saclay, Université Paris-Saclay & Telecom Paris
2018 - 2019	Master of **Artificial Intelligence**, Lyon 1 University
2016 - 2019	Engineer degree in **Bioinformatics and modeling**, INSA Lyon
2014 - 2016	Bachelor in biology (2 years), Sorbonne University, Paris

💼 WORK EXPERIENCES

August 2019 – February 2019 — R&D internship in Machine Learning applied to Natural Language Processing (NLP), MONDECA, Paris
> - Comparative study and optimization of machine and deep learning algorithms for **named entity recognition** tasks on large corpora
> - **Alert detection** on text corpus with word embedding and machine learning algorithms
> - Use of **graph embedding** methods for triplets classification in a knowledge graph

Java | Python | Scikit-learn | Keras

August 2018 – May 2018 — Research internship in Image processing and radiomics, IMIV/INSERM/CEA, Orsay
> - Realization of an **MRI standardization pipeline** which is now **used for research purposes**
> - Computing and analysis of **radiomic features** of MRI images

Python | R | Bash

☰ COMPUTER SKILLS

Programming	**Python, Javascript, R**, Java, C++, Latex, Bash, HTML, CSS
Frameworks	**D3JS, Numpy, Pandas, Scikit-learn, Keras**, Pytorch, Spacy, Flask
Databases	SQL, Neo4j, RDF
Operating systems	**Linux**, Windows
Softwares	**Git**, Maven, Subversion, Knime

🎓 AWARDS

VAST Mini-Challenge 1 Award (2020) : **Outstanding Comprehensive Solution**. GraphletMatchMaker : Visual Analytics Approaches to Graph Matching in Cybersecurity Communities. Natkamon Tovanich, Alexis Pister, Gaëlle Richer, Paola Valdivia, Jean-Daniel Fekete, Christophe Prieur, Petra Isenberg

🎓 PUBLICATIONS

Natkamon Tovanich, Alexis Pister, Gaelle Richer, Paola Valdivia, Christophe Prieur, Jean-Daniel Fekete, and Petra Isenberg. Vast 2020 contest challenge : Graphmatchmaker : Visual analytics for graph comparison and matching. *IEEE Computer Graphics and Applications*, 2021

Natkamon Tovanich, Alexis Pister, Gaëlle Richer, Paola Valdivia, Jean-Daniel Fekete, Christophe Prieur, and Petra Isenberg. Graphletmatchmaker : Visual analytics approaches to graph matching in cybersecurity communities. In *IEEE Visual Analytics Science and Technology, VAST Challenge*, 2020

Alexis Pister, Paolo Buono, Jean-Daniel Fekete, Catherine Plaisant, and Paola Valdivia. Integrating Prior Knowledge in Mixed Initiative Social Network Clustering. *IEEE Transactions on Visualization and Computer Graphics, to appear*, 2021

Alexis Pister and Ghislain Auguste Atemezing. Towards Automatic Domain Classification of LOV Vocabularies. In *PROFILES/SEMEX@ ISWC*, pages 18–28, 2019

Alexis Pister and Ghislain Auguste Atemezing. Knowledge Graph Embedding for Triples Fact Validation. In *ISWC Satellites*, pages 21–24, 2019

🎓 Teaching

2020 - 2021	**Algorithms and databases/SQL**, engineer students, Polytech Paris-Saclay, 64h
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💻 Side projects

TROLL-D 2019

🔗 github.com/AlexisPister/Troll-d

Machine learning study for the detection of troll messages. The best model is hosted in the cloud

`Scikit-learn` `Flask` `HTML`

VAD-DEEP 2018

🔗 github.com/AlexisPister/VAD-Deep

Voice Activity Detector system which detects frames of speech in audio samples with a deep neural network

`Python` `Pytorch`

🌐 Langages

French ●●●●●
English ●●●●○
Spanish ●●●○○

➕ Hobbies

- > **Music** : Bass guitar, piano and electronic music. Organization volunteer for the student jazz festival Un Doua de Jazz (2018).
- > **Sports** : Running, tennis
- > **Reading** : Novels, newspapers, comic strips
- > **Other** : Rock & Roll dancing