Alexis PISTER
Researcher in Visualization

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- ⚲ 31 Boulevard du Marechal Joffre, 92340 Bourg-la-Reine
- ⓘ Born the 10th of November, 1996

My research interests lie in information visualization, visual analytics, and network visualization. Specifically, I like to design and develop interactive systems with new visualization and interaction techniques for the exploration and analysis of complex data. I mainly worked on network data visualization and its application to sociology and history, and am now studying how to graphically show specific network types such as temporal hypergraphs, that can have many applications.

🎓 EDUCATION

2019-2022	Ph.D. in visual analytics for **historical temporal social networks**, Inria Saclay, Université Paris-Saclay & Telecom Paris
2018-2019	Master 2 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	Javascript, Typescript, HTML, CSS, **Python, R**, Dart, Java, C++, Latex, Bash
Frameworks	**Vue, D3, Vega, Numpy, Pandas, Scikit-learn**, Pytorch, Spacy, Flask
Databases	SQL, Neo4j
Operating systems	Linux, Windows
Softwares	Git, Inkscape, LibreOffice

🎓 PUBLICATIONS

Full Papers

[J1] **Alexis Pister**, Christophe Prieur, and Jean-Daniel Fekete. ComBiNet : Visual Query and Comparison of Bipartite Multivariate Dynamic Social Networks. *Computer Graphics Forum*, page cgf.14731, January 2023.

[J2] Gaelle Richer, **Alexis Pister**, Moataz Abdelaal, Jean-Daniel Fekete, Michael Sedlmair, and Daniel Weiskopf. Scalability in Visualization. *IEEE Transactions on Visualization and Computer Graphics*, pages 1–15, 2023.

[J3] Sara Di Bartolomeo, **Alexis Pister**, Paolo Buono, Catherine Plaisant, Cody Dunne, and Jean-Daniel Fekete. Six Methods for Transforming Layered Hypergraphs to Apply Layered Graph Layout Algorithms. *Computer Graphics Forum*, 41(3):1467, June 2022.

[J4] 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*, pages 1–1, 2021.

[J5] **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*, 27(2):1775–1785, February 2021.

Workshop Papers

[W1] **Alexis Pister**, Nicole Dufournaud, Pascal Cristofoli, Christophe Prieur, and Jean-Daniel Fekete. From Historical Documents To Social Network Visualization : Potential Pitfalls and Network Modeling. In *7th Workshop on Visualization for the Digital Humanities (VIS4DH)*, 2022.

[W2] **Alexis Pister** and Ghislain Auguste Atemezing. Towards Automatic Domain Classification of LOV Vocabularies. In *PROFILES/SEMEX@ ISWC*, 2019.

Posters

[P1] **Alexis Pister**, Christophe Prieur, and Jean-Daniel Fekete. Visual Queries on Bipartite Multivariate Dynamic Social Networks. The Eurographics Association, 2022.

[P2] **Alexis Pister** and Ghislain Auguste Atemezing. Knowledge Graph Embedding for Triples Fact Validation. In *ISWC Satellites*, 2019.

🎓 TEACHING

2020-2021	**Algorithms and Databases (SQL)**, Engineer Students, Polytech Paris-Saclay, 64h
2019-2020	**Algorithms and Databases (SQL)**, Engineer Students, Polytech Paris-Saclay, 64h

🎓 COMMUNITY SERVICE

Reviewing	VIS 2021, Visual Informatics 2022
Volunteering	VIS 2020, Eurovis 2022

🌐 LANGUAGES

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

✚ HOBBIES

Music : Bass guitar, piano, and electronic music
Sports : Running
Reading : Novels
Other : Rock & Roll dancing

❝ REFERENCES

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