CLÉMENT REBUFFEL

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I am a **Quantitative Researcher** at **G-Research** (London, UK), and a final year **PhD** student at **Sorbonne Université** (Paris, France). At work, I research systematic trading ideas to predict the future of financial markets using large text corpora. My academic research includes all things **Natural Language Generation**, especially from structured data (e.g. tables, graphs, etc.). I have fruitful collaborations with University of Turin (Italy) and University of Aberdeen (UK). All projects (solos & duos) are available on github: https://github.com/KaijuML.

Skills

- Lang. French (native) English (fluent) Spanish (I can read books and understand movies).
- Prog. Python (5+ years) (Pytorch 🤚 HuggingFace 🤐 Pytorch-Lightning 🔇)
- Web Flask Javascript (Vue.js) Netlify Azure Functions

Work Experience

2021+ G-Research - London, UK

Quantitative Researcher, part of the NLP team. Working on predicting financial markets using large textual corpora.

2017-2021 BNP Paribas - Paris, France Data Scientist and Researcher. Currently working with the AI research team of Data&AI Lab, as part of a CIFRE contract (aka Industry PhD). Part of the team who launched the internal machine learning-powered search engine. Areas of research include Natural Language Generation, all things NLP and Information Retrieval. Advisory capacity: help team select the best technology for a task, internal reviews of papers.

Education

2018-2021	Sorbonne Université PhD on <i>Deep Learning for Data-to-Text Generation</i> . Learning better representations of complex structured data, disentangling factual/incorrect statements in reference texts, producing reliable and controllable NLG systems. Supervisors: Laure Soulier and Patrick Gallinari
2019	RLSS
	Summer school on Reinforcement Learning with the SequeL team.
2016-2017	École Normale Supérieure
	MSc (final year): Mathematics, Statistics and Machine Learning.
	Convex Optimization, Kernel Methods, Probabilistic Graphical Models, Monte Carlo Markov Chains,
	Statistical Learning, etc.
2012-2016	Université Paris-Dauphine
	MSc (1 st year): Mathematics and Statistics.
	Bachelor's degree: Mathematics, Finance and Programming.

Publications & Academia

- 2021 **C. Rebuffel**, T. Scialom, L. Soulier, B. Piwowarski, S. Lamprier, J. Staiano, G. Scoutheeten, and P. Gallinari. Data-QuestEval: A Referenceless Metric for Data-to-Text Semantic Evaluation. *2021*.
- 2021 **C. Rebuffel**, M. Roberti, L. Soulier, R. Canceliere, G. Scoutheeten, and P. Gallinari. Controlling Hallucinations at Word Level in Data-to-Text Generation. *DMKD 2021*.
- 2020 **C. Rebuffel**, L. Soulier, G. Scoutheeten, and P. Gallinari. PARENTing via Model-Agnostic Reinforcement Learning to Correct Pathological Behaviors in Data-to-Text Generation. *INLG 2020*.
- 2020 **C. Rebuffel**, L. Soulier, G. Scoutheeten, and P. Gallinari. A Hierarchical Model for Data-to-Text Generation. *ECIR 2020*.
- 2020 **C. Rebuffel**, L. Soulier, G. Scoutheeten, and P. Gallinari. Capturing Entity Hierarchy in Data-to-Text Generative Models. *CIRCLE 2020*.

Reviews NeurIPS (top 10% of high-scoring reviewers), ACL, SIGIR

Competitions

2021	Google CodeJam: Up to round 2
	Multiple rounds of online algorithmic coding puzzles.
2020	Google HashCode: Top 5% world (30/787 France)
	Team programming competition on a complex engineering problem.
2017	FNS Data Challenge: 1 st

Predicting the age of patients from EEGs.