



Antoine Chaffin

IT Engineer, PhD Student
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About me

Passionate about **science** and **technology** since forever, I quickly appreciated the possibilities offered by IT and even more by AI.

I did an **engineering school** to study computer science and learn proper coding practices that I put into practice during my **internships in software firms**.

After getting my **IT engineering degree** and a **master degree in research in computer science**, my passion and will to share it with as many people as possible led me to do a **PhD**, where the goal was to **bridge the gap between text and image modalities** in the context of fake news detection.

Besides the multimodal aspect of my thesis, I studied **natural language generation** through **cooperative generation** (using an external model to guide the generator).

I am looking for a job where I can continue to **discover new things and share them with others**.



Languages



NATIVE



C1



B1



Contact



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Experiences

VISITING RESEARCHER (SORBONNE UNIVERSITY)

⌚ DECEMBER 2021 🏙 PARIS

One month internship in the **MLIA** team to collaborate on **cooperative generation**

TEACHER (RENNES UNIVERSITY)

⌚ 2020-2021 🏙 RENNES

Teaching **data analysis** to undergraduate students (**ISTIC**) and **machine learning** to engineer students (**ESIR**)

TRINEE (IRISA)

⌚ FEB-JULY 2020 🏙 RENNES

End of study research internship on the subject of **image repurposing detection using multimodal models**

TRINEE (THEM-IS)

⌚ JUNE-JULY 2019 🏙 NANCY

Realization of a web project for the **Basel-Mulhouse airport**

⌚ JULY-AUGUST 2018

Web developpement of the firm's portfolio



Education

INRIA, IMATAG

⌚ 2020-2023 🏙 RENNES

(expected) **Industrial PhD** in Artificial Intelligence (**Multimodal Fake News Detection**)

UNIVERSITY OF RENNES 1

⌚ 2019-2020 🏙 RENNES

Master degree in research in computer science with **highest honors**

POLYTECHNIQUE MONTRÉAL

⌚ 2019 🏙 MONTREAL

International exchange

INSA

⌚ 2015-2020 🏙 RENNES

Engineering degree (integrated preparatory classes during 2 years followed by 3 years in the IT department)



Publications

GENERATIVE COOPERATIVE NETWORKS FOR NATURAL LANGUAGE GENERATION

Sylvain Lamprier, Thomas Scialom, **Antoine Chaffin**, Vincent Claveau, Ewa Kijak, Jacopo Staiano, Benjamin Piwowarski
ICML 2022

WHICH DISCRIMINATOR FOR COOPERATIVE TEXT GENERATION?

Antoine Chaffin, Thomas Scialom, Sylvain Lamprier, Jacopo Staiano, Benjamin Piwowarski, Ewa Kijak, Vincent Claveau
SIGIR 2022

PPL-MCTS: CONSTRAINED TEXTUAL GENERATION THROUGH DISCRIMINATOR-GUIDED MCTS DECODING

Antoine Chaffin, Vincent Claveau, Ewa Kijak
NAACL 2022

BLOOM: A 176B-PARAMETER OPEN-ACCESS MULTILINGUAL LANGUAGE MODEL

Big Science Project

arXiv

GENERATING ARTIFICIAL TEXTS AS SUBSTITUTION OR COMPLEMENT OF TRAINING DATA

Vincent Claveau, **Antoine Chaffin**, Ewa Kijak

LREC 2022, TALN 2021

MULTITASK PROMPT TUNING ENABLES ZERO-SHOT TASK GENERALIZATION

Sanh et al.

ICLR 2022