



Fabrice Maurel

HDR Associate Professor in Natural Language Processing and Human-Computer Interaction · Maître de conférences hors classe, CNU 27
Université de Caen Normandie · GREYC, CNRS UMR 6072 · Head of the DIAMANT team

Room S3-364, Campus Côte de Nacre, F-14032 Caen Cedex, France · fabrice.maurel@unicaen.fr · +33 (0)2 31 56 73 97 · maurelf.users.greyc.fr · HAL: fabrice-maurel · DBLP: 86/11539

Positions and education

Since 2005	Associate Professor (Maître de conférences), Department of Mathematics and Computer Science, Université de Caen Normandie — GREYC, CNRS UMR 6072
2022	Habilitation à Diriger des Recherches (HDR), Université de Caen Normandie
2022	Promotion to Maître de conférences hors classe (CNU section 27)
2001–2004	PhD in Computer Science , Université Toulouse Paul Sabatier — IRIT (Toulouse Institute for Research in Computer Science)
2000	DEA in Computer Science, Image and Language , Université Toulouse Paul Sabatier

At a glance

Publications	55 publications since 2001 — 1 book chapter, 7 journal articles, 30 international and 17 national peer-reviewed conference and workshop papers
Projects	15 funded research projects — coordinator of 6, work-package leader of 3
Supervision	10 doctoral students, 4 post-doctoral researchers, 9 research engineers, 9 master research interns
Examining	8 doctoral committees

Research interests

- **Morpho-dispositional semantics** — leveraging layout and typographical information to enhance natural language processing applications: text-to-speech systems, extractive summarization and simplification, document visualization, web page clustering.
- **Web accessibility** — multimodal access to web pages, preserving content integrity and cognitive efficiency under textual access constraints, whether mental, cognitive, physical or situational.
- **Enactive design of interactive systems** — haptic and concurrent speech interfaces encouraging the emergence of advanced non-visual reading strategies.

Application domains. Clinical health (mental, cognitive and neurological) and non-clinical health (mental and visual disability, sport, well-being).

Selected projects

- **2027–2031 Coordinator** of the STP-MEC project (an integrated approach to accessible text simplification, at the interface of natural language processing, linguistics and cognitive neuroscience, based on multimodal generative models and their experimental validation) - Funded by ANR (ANR-26-CE38-3075-02)
- **2026–2028 Coordinator** of the ECOFALC project (generative models for Easy-to-Read (FALC) simplification preserving discourse coherence and emotional intensity) - Funded by CNRS (80|PRIME programme, MITI)
- **2026–2029 Academic partner** of the EMERVA project (New varieties of plain language and embodied language awareness: perspectives for a socially inclusive AI) - comparing the simplified language produced by artificial intelligence with that produced by multilingual young people, across informative, administrative and literary texts, including poetry in plain language - Funded by CaeSAR (ExcellenceS, France 2030)
- **2024–2027 Academic partner** of the **MENTAL.AI@Caesar project** (Artificial Intelligence for Mental and Brain Health) - Funded under France 2030 (AMI ExcellenceS) and by the Normandy Region
- **2024–2027 Academic partner** of the **HYBRIDS project** (Hybrid Intelligence to Monitor, Promote and Analyse Transformations in Good Democracy Practices) - detection of toxic social-media bots and of hyperpartisan political news - Funded by the European Union (MSCA Doctoral Networks)
- **2024–2028 Academic partner** of the **PARTAGES project** (Advanced Development of Digital Commons for Generative Artificial Intelligence in Health) - Funded under France 2030, led by the Health Data Hub
- **2018–2021 Coordinator** of the **TAG-THUNDER project** (Access to Web Documents by Spatialized Oral Feedback) - Funded by BPI France (PIA2)
- **2013–2016 Coordinator** of the **ART-ADN project** (Access to Digital Documents by Oral and Haptic Feedback) - Funded by ANR (12-SOIN-0003-2)

7 further projects since 2011, funded by ANR, BPI, CNRS, the European Union, France 2030 and the Normandy Region — full list on the website.

Doctoral supervision

10 doctoral students supervised, 7 of them ongoing. Also 4 post-doctoral researchers, 9 research engineers and 9 master research interns.

- **2027–On-going Recruitment to come** — PhD in Computer Science at the University of Caen Normandie (France), within the STP-MEC project | 50% co-supervision with Patrice Bellot (Aix-Marseille Université). The thesis is funded by ANR (ANR-26-CE38-3075-02).

- **2026—On-going Recruitment in progress** — PhD in Computer Science at the University of Caen Normandie (France) on Multimodal and Emotional FALC | 50% co-supervision with Iris Eshkol-Taravella (MoDyCo, Université Paris Nanterre). The thesis is funded by the 80|PRIME CNRS programme.
- **2025—On-going Amine Yousef Khodja** — PhD in Computer Science at the University of Caen Normandie (France) on Anomaly Detection | 50% co-supervision with Jérémie Pantin. The thesis is funded by the RIN 100%.
- **2025—On-going Sami Mechtouf** — PhD in Computer Science at the University of Caen Normandie (France) on Multimodal FALC Generation and Human-in-the-loop | 50% co-supervision with Laure Lejeune. The thesis is co-funded by the RIN 50% and the NORMANTHIA Project.
- **2024—On-going Aurélien Bournonville** — PhD in Computer Science at the University of Caen Normandie (France) on Web Page Main Content extraction and Boilerplate Detection. The thesis is funded by **Babbar** tech.
- **2023—On-going Nilesch Tete** — PhD in Computer Science at the University of Caen Normandie (France) on Multimodal Interactions and Enactive Language Interfaces | 50% co-supervision with Gaël Dias and Mohammed Hasanuzzman. The thesis is co-funded by the RIN 50% and the Munster Technological University (Eire).
- **2021—On-going Alexandre Perier** — PhD in Computer Science at the University of Caen Normandie (France) on Hierarchical Language Models | 50% co-supervision with Youssef Chahir. The thesis is funded by the RIN 100%.

Collective responsibilities

Since 2026	Vice-President of ATALA, the French Association for Natural Language Processing — scientific ambassador, and chair of the national PhD thesis award in NLP
Since 2024	Founder and head of DIAMANT at GREYC (Documents, InterActions, Multimodal machine learning, Accessibility, nlp ∩ vision, Text analytics) — created as a cross-cutting working group of some twenty researchers, a fully-fledged GREYC research team since 1 September 2026
Since 2024	Co-head of the « Multimodality and Multisensoriality » working group of the CNRS Research Network on Human-Computer Interaction (GDR IHM)
Since 2024	Head of the Psychosensory Room and Connected Home experimental platforms at GREYC
Since 2023	Head of the national PhD thesis award in Natural Language Processing (ATALA)
Since 2022	Head of the Master in Computer Science , Université de Caen Normandie (160 students), with Gaël Dias
Since 2022	Lead of five actions of the NORMANTHIA and SATIN training projects (France 2030, Compétences et Métiers d'Avenir)

Full list of responsibilities, events, talks and teaching on the website.

Selected publications

- **2022** **Q1** Srivatsa Ramesh Jayashree, Gaël Dias, Judith Jeyafreeda Andrew, Sriparna Saha, Fabrice Maurel, and Stéphane Ferrari. Multimodal Web Page Segmentation Using Self-organized Multi-objective Clustering. ACM Trans. Inf. Syst. 40, 3, Article 59 (July 2022), 49 pages. doi:10.1145/3480966 [HTML](#)
- **2020** **Q2** Maurel F, Dias G, Safi W, Routoure JM, Beust P. Layout Transposition for Non-Visual Navigation of Web Pages by Tactile Feedback on Mobile Devices. Micromachines (Basel). 2020 Apr 3;11(4):376. doi: 10.3390/mi11040376. PMID: 32260056; PMCID: PMC7230703. [PDF](#)
- **2026** **A*** Khodja A. Y., Pantin J., Dias G., Maurel F., Anomaly Detection using Source-Reversed Flow Matching (EMNLP 2026).
- **2026** **A*** Lemaire R., Kaibaldiyev A., Mariette E., Viglieri D., Pantin, J., Lechervy A., Maurel F., Dias G., Blaizot G., Agin V., Poirel N., Bui E., Platel H., Vivien D., Chahir Y. MONET: Museum Observatory of Neuro-affective Eye-Tracking (ACMMM 2026).
- **2026** **A** Joshua Maggini M., Merzougui D. E., Bandyopadhyay R., Dias G., Maurel F., Gamallo-Otero P. Are LLMs Enough for Hyperpartisan, Fake, Polarized and Harmful Content Detection? Evaluating In-Context Learning vs. Fine-Tuning (ICWSM 2026).
- **2025** **A*** Ledoyen F., Dias G., Pantin J., Maurel F., Lechervy A., Chahir Y. Facilitating Cognitive Accessibility with LLMs: A Multi-Task Approach to Easy-to-Read Text Generation. In The 2025 Conference on Empirical Methods in Natural Language Processing (EMNLP 2025). [PDF](#)
- **2025** **A*** Bournonville A., Maurel F., Rioult F., Dias G., Pitel G., Largillier T., Marchand E. Multilingual Evaluation of Main Content Extractors for Web Pages. In the 48th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2025). [PDF](#)

55 publications since 2001 — complete list on the website and on HAL.