

# Rachel Bawden

Inria Researcher in Natural Language Processing

Machine Translation (MT), Context-aware NLP and MT, NLP, Low-Resource NMT

## Personal details

Date of birth	04/10/1988	Nationality	British and French
E-mail	<a href="mailto:rachel.bawden@inria.fr">rachel.bawden@inria.fr</a>	Website	<a href="https://rbawden.github.io">https://rbawden.github.io</a>

## Education and degrees

- 2019 **French lecturer qualifications**, *CNU*, Sections 7 (Linguistics) and 27 (Informatics).
- 29/11/2018 **PhD in computer science**, *Université Paris-Sud*, Going beyond the sentence: Contextual Machine Translation of Dialogue.
- Supervisors: Sophie Rosset (LIMSI, CNRS) and Thomas Lavergne (LIMSI, Univ. Paris-Sud)
  - President: Nicolas Sabouret (LIMSI, Univ. Paris-Sud)
  - Reviewers: Jörg Tiedemann (University of Helsinki) and Loïc Barrault (Université du Mans)
  - Examiners: Lucia Specia (University of Sheffield and Imperial College) and Andrei Popescu-Belis (Haute École D'Ingénierie et de Gestion du Canton de Vaud)
- 2013–2015 **Master's degree in Computational Linguistics**, *Université Paris-Diderot*, First class (“mention très bien”). Machine learning, syntactic parsing, computational semantics, probabilities for NLP, machine translation, formal languages.
- 2012–2013 **Master's degree (first year) in Linguistic Engineering**, *Université Sorbonne Nouvelle*, First class (“mention très bien”). Corpus processing, formal grammars, lexicography, computational phonetics.
- 2007–2011 **Bachelor of Arts in French and Linguistics**, *Oxford University*, First Class. Phonetics/phonology, psycholinguistics, general linguistics, syntax, historical linguistics, sociolinguistics, French linguistics.
- 2005–2007 **A-levels**, *The Latymer School, Edmonton, London*, French, English, Biology, Geography, four grade “A”s.

## Professional experience

### Research

- 2020–present **Researcher (chargée de recherches)**, *Inria, Paris* in the ALMAnaCH project-team, Natural Language Processing and Machine Translation..  
**Holder of a “springboard” chair in the PRAIRIE research institute**
- 2018–2020 **Research associate**, *ILCC, University of Edinburgh*, Neural machine translation for low resourced languages, Working with Alexandra Birch.
- 2015–2018 **PhD in computer science**, *LIMSI, CNRS, Univ. Paris-Sud*, Going beyond the sentence: Contextual Machine Translation of Dialogue, Supervised by Sophie Rosset and Thomas Lavergne.
- May–Aug 2017 **Research visit**, *ILCC, University of Edinburgh*, Neural machine translation for discourse. Collaboration with Alexandra Birch, Barry Haddow and Rico Sennrich.

Feb–Aug 2015	<b>Master's research placement</b> , <i>Alpage (Inria &amp; Université Paris-Diderot)</i> , Boosting for model selection for statistical syntactic parsing. Supervised by Benoit Crabbé.
May–Aug 2014	<b>Master's research placement</b> , <i>LaTTiCe (CNRS &amp; Université Sorbonne Nouvelle) and Télécom ParisTech</i> , Modelling communicative acts for an embodied conversational agent. Supervised by Frédéric Landragin and Chloé Clavel.
2013	<b>Translation proof-reading and revision</b> , <i>Lucien Tesnière</i> , Elements of structural syntax, published in French in 1959, translated by Timothy Osborne and Sylvain Kahane, John Benjamins, Amsterdam, 2015.
March–Aug 2013	<b>Master's Research placement</b> , <i>MoDyCo Laboratory (CNRS &amp; Université Paris-Ouest)</i> , Annotation, development and semi-automatic correction of a dependency treebank of spoken French (Rhapsodie). Supervised by Sylvain Kahane.
Research projects	
2023–2027	<b>COLaF Inria DEFI</b> , <i>PIs: Benoît Sagot and Slim Ouni</i> , Corpus et Outils pour les Langues de France.
2023–2026	<b>TraLaLaM ANR projet</b> , <i>PI: Josep Crego (SYSTRAN)</i> , <b>Leader for ALMAAnCH</b> , Translating with Large Language Models.
2023–2027	<b>MaTOS ANR projet</b> , <i>PI: François Yvon (ISIR, CNRS)</i> , <b>Leader for ALMAAnCH</b> , Machine Translation for Open Science.
2021–2022	<b>BigScience workshop</b> , Participation in the evaluation working group.
2021–2023	<b>DadaNMT: Domain ADaptation for Neural Machine Translation</b> , <i>Projet Emergence</i> , Sorbonne Université, <b>Project PI</b> .
2021–2024	<b>PRAIRIE (PaRis AI Research InstitutE)</b> , <i>Research Institute on Artificial intelligence headed by Isabelle Ryl</i> , Holder of a “springboard” chair, <a href="https://prairie-institute.fr">https://prairie-institute.fr</a> .
2021–2024	<b>CounteR</b> , European H2020 project, <a href="https://counter-project.eu">https://counter-project.eu</a> .
2019–2020	<b>MTStretch: Low Resource Machine Translation</b> , UKRI fellowship, held by Alexandra Birch, University of Edinburgh, UK, Funded postdoc position. <a href="https://gow.epsrc.ukri.org/NGBOViewGrant.aspx?GrantRef=EP/S001271/1">https://gow.epsrc.ukri.org/NGBOViewGrant.aspx?GrantRef=EP/S001271/1</a>
2019–2020	<b>GoURMET (Global Under-Resourced Media Translation)</b> , European H2020 project, Leader of the work package on morphological modelling, University of Edinburgh, UK, in collaboration with the University of Alicante, the University of Amsterdam, the BBC and Deutsche Weller, <a href="https://gourmet-project.eu">https://gourmet-project.eu</a> .
Supervision	
PhD students	
Nov 2023–present	<b>Armel Zebaze, PhD funded by Inria</b> , <i>Analogy for multilingual NLP</i> , Co-supervised with Benoît Sagot.
Oct 2023–present	<b>Nicolas Dahan, PhD funded by the MaTOS ANR project</b> , <i>Evaluation of the machine translation of scientific documents</i> , Co-supervised with François Yvon (CNRS).
Oct 2023–present	<b>Ziqian Peng, PhD funded by the MaTOS ANR project</b> , <i>Machine translation of scientific documents</i> , Co-supervised with François Yvon (CNRS).
Oct 2021–present	<b>Lydia Nishimwe, PR[AI]RIE-funded PhD</b> , <i>Robust Neural Machine Translation</i> , Co-supervised with Benoît Sagot.
Oct 2021–present	<b>Matthieu Futeral-Peter, PhD funded by Inria and PR[AI]RIE</b> , <i>Multimodal Neural Machine Translation</i> , Co-supervised with Ivan Laptev, Cordelia Schmid and Benoît Sagot.

Sep 2020–Sep 2022	<b>Clémentine Fourrier, Inria-funded PhD</b> , <i>Neural models of language evolution</i> , Co-supervised with Benoît Sagot and Laurent Romary.
	Interns and engineers
Dec 2023–present	<b>Oriane Nédey, Research engineer</b> , <i>Data collection and translation models for a regional language of France (COLaF project)</i> .
Aug 2023–Oct 2023	<b>Seth Aycock, Research engineer</b> , <i>Domain adaptation for machine translation (DadaNMT project)</i> .
Oct 2022–June 2023	<b>Niyati Bafna, Research engineer</b> , <i>Linguistically inspired language models for closely related languages</i> .
Feb–June 2022	<b>Jesujoba Alabi, Research engineer</b> , <i>Domain adaptation for machine translation (DadaNMT project)</i> .
Sep 2021–June 2022	<b>Camille Rey, Master 2 student from INALCO</b> , <i>Contrastive training of machine translation models for lexical disambiguation</i> , Co-supervised with Benoît Sagot.
June–Aug 2021	<b>Sonal Sannigrahi, BSC student from École Polytechnique</b> , <i>Investigating the effect of input representations on language sharing in multilingual models</i> .
May–Oct 2021	<b>Matthieu Futrel-Peter, Master 2 student from ENSAE and ENS Paris-Saclay</b> , <i>Exploration of multilingual and multimodal word embeddings</i> , Co-supervised with Benoît Sagot, Cordelia Schmid and Ivan Laptev.
Feb 2021–Jan 2022	<b>Thibault Charmet, engineer</b> , <i>Automatic tools for improving jurisprudence consistency</i> , Co-supervised with Benoît Sagot and in collaboration with the Cour de Cassation.
Sep 2020–March 2021	<b>Quentin Burthier, Master 2 student from ENS Paris-Saclay</b> , <i>Machine Translation of Noisy Texts</i> , Co-supervised with Djamel Seddah.
Feb–June 2020	<b>Farid Arthaud, visiting Master 1 student from ENS, Paris</b> , <i>Continuous learning for Neural Machine Translation from Human Post-edits</i> , School of Informatics, Edinburgh, UK, Co-supervised with Alexandra Birch.
March–Aug 2020	<b>Ashwani Tanwar, MSC thesis</b> , <i>Improving Low-Resource Neural Machine Translation of Related Languages by Transfer Learning</i> , School of Informatics, Edinburgh, UK, Co-supervised with Alexandra Birch.
March–Aug 2019	<b>Radina Dobreva, MSC thesis</b> , <i>Integrating document structure information into Neural Machine Translation using cache-based models</i> , School of Informatics, Edinburgh, UK, Co-supervised with Annie Louis and Bonnie Webber.
March–Aug 2019	<b>Jie Zhou, MSC thesis</b> , <i>Exploiting Predictable Document Substructure in Neural Machine Translation</i> , School of Informatics, Edinburgh, UK, Co-supervised with Annie Louis and Bonnie Webber.
	Examination Committee
March 2023	<b>Examiner, Lorenzo Lupo, PhD</b> , Université Grenoble Alpes, France, Challenges and Remedies for Context-Aware Neural Machine Translation.
December 2022	<b>Examiner, Jitao Xu, PhD</b> , Université Paris-Saclay, France, Writing in two languages: neural machine translation as an assistive bilingual writing tool.
July 2022	<b>Examiner, Baptiste Rozière, PhD</b> , Université Paris Dauphine-PSL, France, Traduction Non Supervisée de Langages de Programmation.
July 2022	<b>Examiner, Antoine Simoulin, PhD</b> , Université Paris Cité, France, Sentence embeddings and their relation with sentence structures.

Sep 2020 **Examiner**, *Kirian Guiller, Master 2, Université Sorbonne Nouvelle, Paris, France*, Automatic syntactic parsing of the Nigerian pidgin-creole with help form a transformer (BERT): Methods and Results.

#### Other Committees

July 2023 **CSD member**, *Tom Calamai, PhD monitoring committee, Inria, Automatic detecting of fallacious arguments.*

June 2022 **CSD member**, *Antoine Yang, PhD monitoring committee, Inria, Multimodal video representation with cross-modal learning.*

2022 **External member**, *Selection committee for a lecturer position, Télécom Paris, Data, Intelligence and Graphs.*

#### Community activities

2023 **Co-organiser of the 2023 PRAIRIE colloquium, Inria Paris, France.**

2022–present **Commision for scientific hiring (postdocs, PhDs and delegations), Inria Paris, France.**

2022–present **SLP board member: Administrator, Société de Linguistique de Paris.**

2022–present **Member of the organising committee of the WMT general translation shared task, Conference on Machine Translation.**

2021–present **Organiser of the ALMAnaCH seminar series, Inria Paris, France.**

2021–2022 **Organiser of the ALMAnaCH reading group, Inria Paris, France.**

2020–present **Member of the organising committee of the WMT biomedical translation shared task, Conference on Machine Translation.**

2020–present **Member of an editorial board, *The Northern European Journal of Language Technology (NEJLT)*.**

2020 **Co-president of the 2020 ATALA thesis prize.**

2017–present **Programme committees**, EMNLP, ACL, NAACL, COLING, ARR, WMT, EACL demos, ACL-SRW, NAACL-SRW, EAMT, LREC RECITAL, MT Summit, BSL, JoSTrans, Dialogue & Discourse.

2016 **Jury member of the Doctoral Prize, The Doctoral School of Science and Communication Technology (STIC), Université Paris-Saclay.**

2016 **Co-organiser of the PhD Day, LIMSI, CNRS.**

2016–2017 **PhD representative for the laboratory board, LIMSI, CNRS.**

#### Teaching

2016–17, 2017–18 **Introduction to Natural Language Processing**, 4th year, Polytech Paris-Sud, Course creator and supervisor: lectures, tutorials and practical classes (30hrs/year).

2017–18 **Algorithmics and C++, 2nd year**, Polytech Paris-Sud, Practical classes (10hrs).

2015–16, 2016–17 **Databases**, 3rd year, Polytech Paris-Sud, Tutorials and classes (24hrs/year).

2015–16, 2016–17 **Algorithmics/C**, 3rd year, Polytech Paris-Sud, Tutorials and classes (27hrs+28hrs).

2015–16 **Tutoring in computer science**, 3rd year, Polytech Paris-Sud (12hrs).

2009–2010 **English language assistant**, 4 primary schools in Le Puy-en-Velay, France.

#### Awards

2019 **ATALA PhD prize, Association pour le Traitement Automatique des Langues (French association for Natural Language Processing).**

## Additional training

50hrs Lisbon Machine Learning Summer School (LxMLS) 2016

## Computer skills

Languages **Python, C++, Bash**, C, Perl, Java, OCaml, Praat, SQL  
Web technologies HTML, CSS, XML, XSL

## Languages

Native speaker English  
Bilingual French

## Invited talks and tutorials

- June 2023 From Linguistic to Visual Context in Machine Translation, *Speaker*, ANITI-PRAIRIE workshop, Toulouse, France.
- March 2023 From Linguistic to Visual Context in Machine Translation, *Speaker*, Laboratoire Informatique de Grenoble, Université de Grenoble, France.
- October 2022 Traduction Automatique et Linguistique : une relation en crise ?, *Speaker*, Pôle Modélisation du laboratoire MoDyCo, Université Paris Nanterre, France.
- March 2022 Traduction automatique dans des scénarios à faibles ressources : application à des questions linguistiques, *Speaker*, LIFT TAL 2022: Journées Jointes des Groupements de Recherche « Linguistique Informatique, Formelle et de Terrain » et « Traitement Automatique des Langues », Marseille, France.
- March 2022 Low-resource MT: Few-shot learning and historical language normalisation, *Speaker*, Cognitive Science Research Group, Queen Mary University of London, UK.
- March 2022 Low-resource MT: Few-shot learning and historical language normalisation, *Speaker*, Multispeech, Loria, Nancy.
- March 2022 Traitement automatique des langues pour tous : l'importance de s'adapter au langage varié des réseaux sociaux, *Speaker*, Round table on "Réduction des biais et des inégalités : L'IA peut-elle avoir un rôle ?", organised by 3IA Côte d'Azur in collaboration with the 3IA (ANITI, MIAI, PR[AI]RIE), Online.
- December 2022 Normalisation de la langue, *Tutorial speaker*, Workshop "Philologie computationnelle: au delà de l'encodage du texte, Université de Lausanne.
- November 2019 Contextual Machine Translation of Dialogue: Strategies and Evaluation, *Invited talk*, Amazon, Berlin, Germany.
- October 2019 Contextual Machine Translation of Dialogue: Strategies and Evaluation, *Invited talk*, Naver labs, Grenoble, France.
- July 2019 Going beyond the sentence: Contextual Machine Translation of Dialogue, *ATALA PhD prize talk*, (in French), Toulouse, France.
- March 2019 Discourse and Context in Machine Translation, *Invited talk*, MSC Course in Informatics: Natural Language Understanding, Generation, and Machine Translation, Edinburgh, UK.

December 2018 Mediating Bilingual Human Dialogues with Machine Translation, *SICSA Workshop on Conversational AI*, Heriot Watt University, Edinburgh, UK.

### Outreach and media

- 2023 Mentoring of 3 students, *Les utilisations possibles de l'Intelligence Artificielle dans la linguistique historique*, Tutored project (Classe préparatoire de Bordeaux) 2022-2023.
- August 2022 Bloom: un nouveau modèle de génération automatique de textes, *Cited in media article*, [larecherche.fr](http://larecherche.fr).
- 2020, 2022-23 Traitement Automatique des Langues (Natural Language Processing), *Invited Talk*, Rendez-vous des Jeunes Mathématiciennes et Informaticiennes, Inria Paris, France.
- November 2021 Alumni contribution to Women in STEM, *Written interview*, Shorts posts by alumni of the Latymer School, Edmonton, UK, for the International Day of Women and Girls in Science.
- July 2021 Natural Language Processing: Applications and Neural Modelling, *Speaker*, Mathematical Summer in Paris, Online.

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## Publications

### PhD thesis

- [1] Rachel Bawden. *Going beyond the sentence: Contextual Machine Translation of Dialogue*. PhD thesis, LIMSI, CNRS, Université Paris-Sud, Université Paris-Saclay, Orsay, France, 2018.

### Journal articles

- [2] Barry Haddow, Rachel Bawden, Antonio Valerio Miceli Barone, Jindřich Helcl, and Alexandra Birch. Survey of low-resource machine translation. *Computational Linguistics*, 48(3):673–732, September 2022.
- [3] Simon Gabay, Philippe Gambette, Rachel Bawden, and Benoît Sagot. *Ancien ou moderne? Pistes computationnelles pour l'analyse graphématische des textes écrits au XVIIe siècle*. *Linx*, 85, 2022.
- [4] Rachel Bawden, Eric Bilinski, Thomas Lavergne, and Sophie Rosset. *DiaBLa: A Corpus of Bilingual Spontaneous Written Dialogues for Machine Translation*. *Language Resources and Evaluation*, pages 635–660, 2020.
- [5] Rachel Bawden, Chloé Clavel, and Frédéric Landragin. *Towards the generation of dialogue acts in socio-affective ECAs: a corpus-based prosodic analysis*. *Language Resources and Evaluation*, 4(2):821–838, 2016.

### Conference papers

- [6] Rachel Bawden and Benoît Sagot. RoCS-MT: Robustness challenge set for machine translation. In Philipp Koehn, Barry Haddow, Tom Kocmi, and Christof Monz, editors, *Proceedings of the Eighth Conference on Machine Translation*, pages 198–216, Singapore, December 2023. Association for Computational Linguistics.
- [7] Tom Kocmi, Eleftherios Avramidis, Rachel Bawden, Ondřej Bojar, Anton Dvorkovich, Christian Federmann, Mark Fishel, Markus Freitag, Thamme Gowda, Roman Grundkiewicz, Barry Haddow, Philipp Koehn, Benjamin Marie, Christof Monz, Makoto Morishita, Kenton Murray, Makoto Nagata, Toshiaki Nakazawa, Martin Popel, Maja Popović, and Mariya Shmatova. Findings of the 2023 conference on machine translation (WMT23): LLMs are here but not quite there yet. In Philipp Koehn, Barry Haddow, Tom Kocmi, and Christof Monz, editors, *Proceedings of the Eighth Conference on Machine Translation*, pages 1–42, Singapore, December 2023. Association for Computational Linguistics.
- [8] Mariana Neves, Antonio Jimeno Yepes, Aurélie Névéol, Rachel Bawden, Giorgio Maria Di Nunzio, Roland Roller, Philippe Thomas, Federica Vezzani, Maika Vicente Navarro, Lana Yeganova, Dina Wiemann, and Cristian Grozea. Findings of the WMT 2023 biomedical

translation shared task: Evaluation of ChatGPT 3.5 as a comparison system. In Philipp Koehn, Barry Haddow, Tom Kocmi, and Christof Monz, editors, *Proceedings of the Eighth Conference on Machine Translation*, pages 43–54, Singapore, December 2023. Association for Computational Linguistics.

- [9] Matthieu Futeral, Cordelia Schmid, Ivan Laptev, Benoît Sagot, and Rachel Bawden. Tackling ambiguity with images: Improved multimodal machine translation and contrastive evaluation. In Anna Rogers, Jordan Boyd-Graber, and Naoaki Okazaki, editors, *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages 5394–5413, Toronto, Canada, July 2023. Association for Computational Linguistics.
- [10] Sonal Sannigrahi and Rachel Bawden. Investigating lexical sharing in multilingual machine translation for Indian languages. In Mary Nurminen, Judith Brenner, Maarit Koponen, Sirkku Latomaa, Mikhail Mikhailov, Frederike Schierl, Tharindu Ranasinghe, Eva Vanmassenhove, Sergi Alvarez Vidal, Nora Aranberri, Mara Nunziatini, Carla Parra Escartín, Mikel Forcada, Maja Popovic, Carolina Scarton, and Helena Moniz, editors, *Proceedings of the 24th Annual Conference of the European Association for Machine Translation*, pages 181–192, Tampere, Finland, June 2023. European Association for Machine Translation.
- [11] Rachel Bawden and François Yvon. Investigating the translation performance of a large multilingual language model: the case of BLOOM. In Mary Nurminen, Judith Brenner, Maarit Koponen, Sirkku Latomaa, Mikhail Mikhailov, Frederike Schierl, Tharindu Ranasinghe, Eva Vanmassenhove, Sergi Alvarez Vidal, Nora Aranberri, Mara Nunziatini, Carla Parra Escartín, Mikel Forcada, Maja Popovic, Carolina Scarton, and Helena Moniz, editors, *Proceedings of the 24th Annual Conference of the European Association for Machine Translation*, pages 157–170, Tampere, Finland, June 2023. European Association for Machine Translation.
- [12] Niyati Bafna, Cristina España-Bonet, Josef Van Genabith, Benoît Sagot, and Rachel Bawden. Cross-lingual strategies for low-resource language modeling: A study on five Indic dialects. In Christophe Servan and Anne Vilnat, editors, *Actes de CORIA-TALN 2023. Actes de la 30e Conférence sur le Traitement Automatique des Langues Naturelles (TALN), volume 1 : travaux de recherche originaux – articles longs*, pages 28–42, Paris, France, 6 2023. ATALA.
- [13] Maud Bénard, Alexandra Mestivier, Natalie Kubler, Lichao Zhu, Rachel Bawden, Eric De La Clergerie, Laurent Romary, Mathilde Huguin, Jean-François Nominé, Ziqian Peng, and François Yvon. MaTOS: Traduction automatique pour la science ouverte. In Florian Boudin, Béatrice Daille, Richard Dufour, Oumaima El, Maël Houbre, Léane Jourdan, and Nihel Kooli, editors, *Actes de CORIA-TALN 2023. Actes de l'atelier “Analyse et Recherche de Textes Scientifiques” (ARTS)@TALN 2023*, pages 8–15, Paris, France, 6 2023. ATALA.
- [14] Tom Kocmi, Rachel Bawden, Ondřej Bojar, Anton Dvorkovich, Christian Federmann, Mark Fishel, Thamme Gowda, Yvette Graham, Roman Grundkiewicz, Barry Haddow, Rebecca Knowles, Philipp Koehn, Christof Monz, Makoto Morishita, Masaaki Nagata, Toshiaki Nakazawa, Michal Novák, Martin Popel, and Maja Popović. [Findings of the 2022 Conference on Machine Translation \(WMT22\)](#). In *Proceedings of the Seventh Conference on Machine Translation (WMT)*, WMT’22, pages 1–45, Abu Dhabi, United Arab Emirates (Hybrid), December 2022. Association for Computational Linguistics.
- [15] Mariana Neves, Antonio Jimeno Yepes, Amy Siu, Roland Roller, Philippe Thomas, Maika Vicente Navarro, Lana Yeganova, Dina Wiemann, Giorgio Maria Di Nunzio, Federica Vezzani, Christel Gerardin, Rachel Bawden, Darryl Johan Estrada, Salvador Lima-lopez, Eulalia Farremaduel, Martin Krallinger, Cristian Grozea, and Aurelie Neveol. [Findings of the WMT 2022 Biomedical Translation Shared Task: Monolingual Clinical Case Reports](#). In *Proceedings of the Seventh Conference on Machine Translation*, WMT’22, pages 694–723, Abu Dhabi, United Arab Emirates (Hybrid), December 2022. Association for Computational Linguistics.
- [16] Jesujoba Alabi, Lydia Nishimwe, Benjamin Muller, Camille Rey, Benoît Sagot, and Rachel Bawden. [Inria-ALMAnaCH at WMT 2022: Does Transcription Help Cross-Script Machine Translation?](#) In *Proceedings of the Seventh Conference on Machine Translation*, WMT’22, pages 233–243, Abu Dhabi, United Arab Emirates (Hybrid), December 2022. Association for Computational Linguistics.
- [17] Benoît Sagot, Laurent Romary, Rachel Bawden, Pedro Javier Ortiz Suárez, Kelly Christensen, Simon Gabay, Ariane Pinche, and Jean-Baptiste Camps. [Gallic\(orpor\)a : Extraction](#),

*annotation et diffusion de l'information textuelle et visuelle en diachronie longue.* In *DataLab de la BnF : Restitution des travaux 2022*, Paris, France, December 2022. DataLab de la BnF.

- [18] Simon Gabay, Rachel Bawden, Benoît Sagot, and Philippe Gambette. *Vers l'étude linguistique sur données artificielles.* In *Variation(s) en français*, Nancy, France, November 2022. ATILF.
- [19] Simon Gabay, Rachel Bawden, Philippe Gambette, Jonathan Poinhos, Eleni Kogkitsidou, and Benoît Sagot. *Le changement linguistique au XVIIe s. : nouvelles approches scriptométriques.* In *CMLF 2022 - 8e Congrès Mondial de Linguistique Française*, volume 138 of *SHS Web of conferences*, pages 02006.1–14, Orléans, France, July 2022. EDP Sciences.
- [20] Rachel Bawden, Jonathan Poinhos, Eleni Kogkitsidou, Philippe Gambette, Benoît Sagot, and Simon Gabay. *Automatic Normalisation of Early Modern French.* In *Proceedings of the 13th Language Resources and Evaluation Conference*, pages 3354–3366, Marseille, France, 2022.
- [21] Simon Gabay, Pedro Ortiz Suarez, Alexandre Bartz, Alix Chagué, Rachel Bawden, Philippe Gambette, and Benoît Sagot. *From FreEM to D'AlemBERT: a Large Corpus and a Language Model for Early Modern French.* In *Proceedings of the 13th Language Resources and Evaluation Conference*, pages 3367–3374, Marseille, France, 2022.
- [22] Simon Gabay, Pedro Ortiz Suarez, Rachel Bawden, Alexandre Bartz, Philippe Gambette, and Benoît Sagot. *Le projet FREEM : ressources, outils et enjeux pour l'étude du français d'Ancien Régime (The FREEM project: Resources, tools and challenges for the study of Ancien Régime French).* In *Actes de la 29e Conférence sur le Traitement Automatique des Langues Naturelles. Volume 1 : conférence principale*, pages 154–165, Avignon, France, 2022. ATALA.
- [23] Thibault Charmet, Inès Cherichi, Matthieu Allain, Urszula Czerwinska, Amaury Fouret, Benoît Sagot, and Rachel Bawden. *Complex Labelling and Similarity Prediction in Legal Texts: Automatic Analysis of France's Court of Cassation Rulings.* In *Proceedings of the 13th Language Resources and Evaluation Conference*, pages 4754–4766, Marseille, France, 2022.
- [24] Victor Sanh, Albert Webson, Colin Raffel, Stephen H. Bach, Lintang Sutawika, Zaid Alyafeai, Antoine Chaffin, Arnaud Stiegler, Teven Le Scao, Arun Raja, Manan Dey, M. Saiful Bari, Canwen Xu, Urmish Thakker, Shanya Sharma, Eliza Szczechla, Taewoon Kim, Gunjan Chhablani, Nihal V. Nayak, Debajyoti Datta, Jonathan Chang, Mike Tian-Jian Jiang, Han Wang, Matteo Manica, Sheng Shen, Zheng Xin Yong, Harshit Pandey, Rachel Bawden, Thomas Wang, Trishala Neeraj, Jos Rozen, Abheesh Sharma, Andrea Santilli, Thibault Févry, Jason Alan Fries, Ryan Teehan, Stella Biderman, Leo Gao, Tali Bers, Thomas Wolf, and Alexander M. Rush. *Multitask Prompted Training Enables Zero-Shot Task Generalization.* In *Proceedings of the 10th International Conference on Learning Representations, ICLR'22*, Online, 2022.
- [25] Alexandre Bartz, Juliette Janes, Laurent Romary, Philippe Gambette, Rachel Bawden, Pedro Ortiz Suarez, Benoît Sagot, and Simon Gabay. *Expanding the content model of annotationBlock.* In *Next Gen TEI, 2021 - TEI Conference and Members' Meeting*, Virtual, United States, 2021.
- [26] Lana Yeganova, Dina Wiemann, Mariana Neves, Federica Vezzani, Amy Siu, Inigo Jauregi Unanue, Maite Oronoz, Nancy Mah, Aurélie Névéol, David Martinez, Rachel Bawden, Giorgio Maria Di Nunzio, Roland Roller, Philippe Thomas, Cristian Grozea, Olatz Perez-de Viñaspre, Maika Vicente Navarro, and Antonio Jimeno Yepes. *Findings of the WMT 2021 Biomedical Translation Shared Task: Summaries of Animal Experiments as New Test Set.* In *Proceedings of the Sixth Conference on Machine Translation, WMT'21*, pages 664–683, Online, 2021.
- [27] Clémentine Fourrier, Rachel Bawden, and Benoît Sagot. *Can Cognate Prediction Be Modelled as a Low-Resource Machine Translation Task?* In *Findings of the Association for Computational Linguistics: ACL-IJCNLP 2021, ACL Findings'21*, pages 847–861, Online, 2021.
- [28] Farid Arthaud, Rachel Bawden, and Alexandra Birch. Few-shot learning through contextual data augmentation. In *Proceedings of the 16th Conference of the European Chapter of the Association for Computational Linguistics: Volume 1, Long Papers, EACL'21*, Online, 2021.
- [29] Rachel Bawden, Biao Zhang, Lisa Yankovskaya, Andre Tättar, and Matt Post. *A Study in Improving BLEU Reference Coverage with Diverse Automatic Paraphrasing.* In *Proceedings*

*of the 2020 Conference on Empirical Methods in Natural Language Processing: Findings, EMNLP’20*, Online, 2020.

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