Jérémie Clos

Research Fellow / Teaching Associate

(+44) 7749 230137 | jeremie.clos@nottingham.ac.uk | jeremieclos | @jeremieclos |

Natural Language Processing - Machine Learning - Information Retrieval

Experience

University of Nottingham

Nottingham, UK

Research Fellow - Trustworthy Autonomous Systems hub — *January 2021 - PRESENT*

- Researcher on Coronavirus Discourses AHRC project.
- Researcher on SafeSpacesNLP project.
- Researcher on TRIPOD project.

Research Fellow - ENLIVEN — *July 2018 - July 2019*

- Development of a decision support system for evidence-based policy-making in the field of lifelong education

Teaching Associate — *February 2018 - PRESENT*

- Lecturing (Databases, Human-AI Interaction, Computer Graphics).
- Supervision of Bachelor, Masters, and PhD students.

Robert Gordon University

Aberdeen, UK

Research Assistant — *Sept. 2017 - Dec. 2017*

- Investigation of the robustness of modern machine learning methods for extremely budgeted learning, with training sets of a dozen data points.
- Development of an R toolkit to facilitate the exploration and extension of the current methodology.

Cognitive Geology

Edinburgh, UK

Data Scientist — *Sept. 2015 - Apr. 2017*

- Investigation of regression techniques for geological modelling.
- Research and implementation of heuristic-constrained logistic fitting algorithms for geological data analysis.
- Research and implementation of fast grid splitting algorithms for geological modelling.

IRIT Research Lab

Toulouse, France

Summer Research Assistant / Software Engineer — *March 2009 - June 2012*

Summer 2012: Multiple small projects in the information systems team: paper translation, literature review, and prototype development.
Summer 2011: METHODEO project, on the evaluation of distributed indexing systems for large multimedia archives.
Summer 2010: LINDO project, on the implementation of an open system for indexing and retrieval of multimedia objects in distributed archives.
Spring–Summer 2009: CERISE project, on the implementation of a systems to systems interface engineering, and study of impact analysis and data traceability in large-scale engineering projects.

Education

Robert Gordon University

Aberdeen, UK

PhD in Computer Science — *February 2019*

- **Thesis title:** Representation and learning schemes for argument stance mining in social media
- **Topics:** machine learning, text classification, argument mining
- **Supervised by:** Prof. Nirmalie Wiratunga, Stewart Massie, Guillaume Cabanac and Prof. Joemon Jose

University of Toulouse

Toulouse, France

MSc in Computer Science — *June 2012*

- **Thesis title**: Predicting Entry Points in Q&A Systems
- **Topics**: information retrieval, text classification
- **Supervised by:** Guillaume Cabanac and Prof. Mohand Boughanem

Robert Gordon University

Aberdeen, UK

BSc (Hons) in Computing and Information Systems — *June 2011*

- **Thesis title**: A Tag-Indexing Algorithm for Images
- **Topics**: information retrieval
- **Supervised by:** Prof. Nirmalie Wiratunga and Guillaume Cabanac

University of Toulouse

Toulouse, France

BSc in Computer Science — *June 2010*

Skills

Languages	Python, R, Java, C#
Python frameworks	Scikit-learn, Tensorflow, Flask
R frameworks	Caret, ggplot2
Version control	Git, TFS
Databases	Oracle, MS-SQL, MySQL
Writing	LaTeX, Markdown
Spoken languages	French (native), English (fluent), Italian (beginner - A2), Mandarin (beginner - A2)

Research and service

Papers

Xin Yu Liew, Nazia Hameed, Jérémie Clos. A Review of Computer-Aided Expert Systems for Breast Cancer Diagnosis. 2021.
Xin Yu Liew, Nazia Hameed, Jérémie Clos. An investigation of XGBoost-based algorithm for breast cancer classification. 2021.
M. Afzal Ismail, Nazia Hameed, Jérémie Clos. Deep Learning-Based Algorithm for Skin Cancer Classification. 2021.
Mat Rawsthorne, Tahseen Jilani, Jacob Andrews, Yunfei Long, Jérémie Clos, Sam Malins, Daniel Hunt. ExTRA: Explainable Therapy-Related Annotations. 2021.
Johann Benerradi, Jérémie Clos, Aleksandra Landowska, Michel F Valstar, Max L Wilson . Benchmarking Framework for Machine Learning with fNIRS. 2021.
Emma McClaughlin, Elena Nichele, Svenja Adolphs, Pepita Barnard, Jérémie Clos, Dawn Knight, Derek McAuley, Alexandra Lang. Public health messaging by political leaders: a corpus linguistic analysis of COVID-19 speeches delivered by Boris Johnson. 2021.
Johann Benerradi, Horia Maior, Adrian Marinescu, Jérémie Clos, and Max Wilson. Exploring Machine Learning Approaches for Classifying Mental Workload using fNIRS Data from HCI Tasks. 2019.
Jérémie Clos, Rong Qu, and Jason Atkin. Information Retrieval for Evidence-Based Policy Making applied to Lifelong Learning. 2019.
Kyle Martin, Nirmalie Wiratunga, Sadiq Sani, Stewart Massie, and Jérémie Clos. Informed pair selection for self-paced metric learning in Siamese neural networks. 2018.
Jérémie Clos, Anil Bandhakavi, Nirmalie Wiratunga, and Guillaume Cabanac. Predicting emotional reaction in social networks. In *European Conference on Information Retrieva*l, pages 527–533. Springer, Cham, 2017.
Stewart Massie, and Jérémie Clos. A convolutional siamese network for developing similarity knowledge in the SelfBACK dataset. 2017.
Jérémie Clos, Nirmalie Wiratunga, and Stewart Massie. Towards explainable text classification by jointly learning lexicon and modifier terms. In *IJCAI Workshop on Explainable Artificial Intelligence*, 2017.
Jérémie Clos and Nirmalie Wiratunga. Lexicon induction for interpretable text classification. In *International Conference on Theory and Practice of Digital Libraries*, pages 498–510. Springer, Cham, 2017.
Jérémie Clos and Nirmalie Wiratunga. Neural induction of a lexicon for fast and interpretable stance classification. In *International Conference on Language, Data and Knowledge*, pages 181–193. Springer, Cham, 2017.
Jérémie Clos, Nirmalie Wiratunga, Stewart Massie, and Guillaume Cabanac. Shallow techniques for argument mining. In *European Conference on Argumentation* (ECA 2015), volume 63, pages pp–341, 2015.
Jérémie Clos, Nirmalie Wiratunga, Joemon Jose, Stewart Massie, and Guillaume Cabanac. Towards argumentative opinion mining in online discussions. In *Proceedings of the SICSA Workshop on Argument Mining*, page 10, 2014.

Service

2019–PRESENT Coordinator of the teaching assistants and postgraduate lab helpers for the School of Computer Science.
2019–PRESENT EMNLP, ECIR, CHI Reviewer.
2017–2019 Main organiser of the RGU-AI research weekly team seminars, administrator ofthe associated mailing list and Slack channel.
2017 Organisation and bidding team of the 2017 ECIR conference.
2015 Organising team of the 2015 SICSA workshop on Mining Social Media.
2014–2015 Organiser of the monthly IDEAS PhD Computer Science student seminars.

PhD student supervisions

2019–2022 Johann Benerradi - Machine learning for mental workload assessment with fNIRS.
2021–2024 Daniel Heaton -Investigating public discourses around decision-making algorithms using a hybrid language approach.
2021–2024 Xin Yu Liew - Hybrid human-AI systems for fake news detection on social media.
2021–2024 Giovanni Schiava - Understanding Political Internet Memes and their effects on social media users.

Research interests

Social media mining Argument mining, sentiment analysis, propaganda detection.
Digital health Monitoring and management of mental health using natural language processing.