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Short Bio.

Marc Bui received his PhD in Computer Science from Université Paris 11 in 1989. He has been a full professor of Computer Science at Université Paris 8 since 1999 and at the École Pratique des Hautes Études since 2005. Before joining Université Paris 8, he was a professor at the University of Technology of Compiègne from 1995 to 1999. At Université Paris 8, he co-heads the G2M Geomatics Master's track and is responsible for the second-year programme. His research focuses on three main areas : distributed computing, the simulation of complex socio-technical systems, and digital and computational humanities.

He is also appointed Directeur d'études cumulant at the École Pratique des Hautes Études (EPHE – Université PSL) and is a member of the AOROC laboratory (UMR 8546, CNRS–ENS–EPHE). Within this context, his work explores the application of machine learning to historical and archaeological data, including automatic layout analysis, transcription of ancient inscriptions, deep-learning-based OCR, and the digital preservation of historical sources. His recent projects include research on Vietnamese steles in the ERC Vietnamica project and on Chinese Pelliot manuscripts from the Dunhuang collection of the Bibliothèque nationale de France.

Current Affiliation

FULL PROFESSOR of Informatics at the University Paris 8, since 1999, and
DIRECTEUR D'ÉTUDES CUMULANT at École Pratique des Hautes Études (EPHE) since 2005.

Previous Affiliations

1999–present PROFESSOR, Université Paris 8.

1995–1999 PROFESSOR, Université de Technologie de Compiègne.

1991–1995 ASSOCIATE PROFESSOR : Université Paris 10 – Nanterre.

Degrees

- Habilitation à diriger des recherches, Université Paris 8, 1994.
- PhD in Computer Science : Université Paris 11, July 1989.
- DEA in Computer Science : Université Paris 6, June 1986.

Some publications

1. Colin Brisson , Ayoub Kahfy , Frédéric Constant , Marc Bui (2026) *AnandaSky : A Vision-Language Model for Line-Level Transcription of Historical Sinographic Documents*. The Fourth Workshop on Language Technologies for Historical and Ancient Languages (LT4HALA 2026), May 2026, Majorca, Spain
2. Minh Nguyen, Quang Nguyen, Marc Bui. (2025). *Perceptron-as-Opinion-Dynamics (POD) : A unified and interpretable machine learning framework for Opinion Dynamics*. Under TMLR Review.
3. Nguyen, P. Q., Mai, A., Bui, M., Nguyen, L. T. T. (2025). *Deep Learning-Based Source Printer Identification from Microscopic Ink Dots Using Morphology-Based Augmentation*. In *Computational Collective Intelligence : 17th International Conference, ICCCI 2025, Ho Chi Minh City, Vietnam, November 12–15, 2025, Proceedings, Part I (Lecture Notes in Computer Science, vol. 16138)*. Springer, Cham.
4. Verdonck, Lieven, Michel Dabas, and Marc Bui (2025). *Interactive, shallow machine-learning based semantic segmentation of 2D and 3D geophysical data from archaeological sites*. *Remote Sensing* 17, no. 17 : 3092. <https://doi.org/10.3390/rs17173092>
5. Colin Brisson, Ayoub Kahfy, Marc Bui and Frédéric Constant (2025). *Named Entity Recognition in Context : Edit_Dunhuang team Technical Report for Evahan2025 NER Competition*, in *Proceedings of the Second Workshop on Ancient Language Processing*, <https://aclanthology.org/2025.alp-1.22/>, pp. 176–181, ISBN 979-8-89176-235-0.
6. Nam T. Tran, Thinh D. Pham, Marc Bui and Sameer Alam, *A Probabilistic Framework for Real-Time Processing of Aircraft Surface Movement Data in Digital Twins (2025)*, *Integrated Communications, Navigation and Surveillance Conference (ICNS)*, Brussels, Belgium, 2025, pp. 1–8, doi : 10.1109/ICNS65417.2025.10976874.
7. Ho, T.K.T., Bui, Q.V., Bui, M. (2025). *Modeling Information Diffusion in Bibliographic Networks Using Pretopology*. In : Buntine, W., Fjeld, M., Tran, T., Tran, MT., Huynh Thi Thanh, B., Miyoshi, T. (eds) *Information and Communication Technology. SOICT 2024*. *Communications in Computer and Information Science*, vol. 2350. Springer, Singapore. https://doi.org/10.1007/978-981-96-4282-3_35
8. Peter Stokes, Daniel Stökl, Marc Bui, Alix Chagué, Colin Brisson, Frédéric Constant (2024). eScriptorium et l'IA pour la transcription automatique. *Culture et recherche*, no. 147, automne-hiver 2024, Recherche et intelligence artificielle.
9. Katherine Gruel, Olivier Masson, Marc Bui. DIANet, un outil pour l'identification automatique des coins monétaires à partir d'images 3D. *Culture et recherche*, no. 147, automne-hiver 2024, Recherche et intelligence artificielle (2024).
10. Anna Scius-Bertrand, Marc Bui and Andreas Fischer (2023). *A Hybrid Deep Learning Approach to Keyword Spotting in Vietnamese Stele Images*. *Informatica* Vol. 47, No. 3.
11. Anna Scius-Bertrand, Michael Jungo, Beat Wolf, Andreas Fischer, Marc Bui (2021). *Transcription Alignment of Historical Vietnamese Handwriting without Human-Annotated Learning Samples*, in section : *Computing and Artificial Intelligence, Recent Advances in Handwritten Text Recognition*. Published in *Applied Sciences* journal.
12. Anna Scius-Bertrand, L. Voegtlin, M. Alberti, A. Fischer and Marc Bui (2019). *Layout Analysis and Text Column Segmentation for Historical Vietnamese Steles*. Published in *Proceedings of the 5th International Workshop on Historical Document Imaging and Processing*, pages 84–89.
13. Anna Scius-Bertrand, Jérémie Bosom, Philippe Papin and Marc Bui (2019). *Towards Automated Reading of Historical Vietnamese Steles*. In *Proceedings of the 19th Conference of the International Graphonomics Society (IGS)*, Cancun, Mexico, 2019.