

Quentin Lobbé – Researcher in Computational Social Sciences

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My research lies at the intersection of Computational Social Sciences, Complex Systems and Data Visualization. It focuses on the reconstruction of multi-level socio-technical dynamics from digital traces, with a particular emphasis on web archives mining and knowledge cartography. This interdisciplinary career has made me as much a field researcher as a data analyst and a digital tool maker. My main scientific contributions are the *Phylomemy* [7,8], the *Web Fragment* [4,6] and the *Web Cernes* [13].

Current position

Post-doc researcher

Computational social science team, Marc Bloch Center, Berlin, Germany

Academic career

Feb 2024	“Qualification aux fonctions de maître de conférence” by the French National Council of University section 27: Computer sciences section 72: Epistemology, history of techniques and sciences
Oct 2023 – ...	Post-doc researcher in Computational Social Science, funded by the ERC Socsemics Marc Bloch Center , Berlin, Germany
Jan 2019 – Oct 2023	Post-doc researcher in Quantitative Epistemology and Science Evolution Mapping, funded by the ANR Epique and the UE project Digeing [7,8,9,11,12,14] Complex Systems Institute of Paris Île-de-France, Paris, France
Mar 2016	Participant of the <i>Culture Analytics</i> training program directed by Lev Manovich Institute for Pure and Applied Mathematics, University of California , Los Angeles, USA
Jan 2016	Participant of the <i>Digital Methods</i> training program directed by Richard Rogers University of Amsterdam , Amsterdam, Nederland
Nov 2015 – Nov 2018	PhD in Computational Social Sciences « <i>Archives, Web fragments and diasporas : for a disaggregated exploration of Web archives related to the online representations of diasporas</i> », under the direction of Pierre Senellart (professor of computer science at ENS) and Dana Diminescu (Sociologist at Télécom ParisTech), attached to the e-diasporas project [2,3,4,5,6,10] Télécom ParisTech , Université Paris Saclay, Paris France
Oct 2013 – Oct 2015	R&D engineer in NLP and search engine, Twenga , Paris, France
Feb 2013 – Jul 2013	Internship in data visualization, Linkfluence , Paris, France
Sep 2012 – Jan 2013	Internship in web mining, Shanghai University (Baoshan), Shanghai, China
Sep 2007 – Jan 2013	Engineering degree in Computer Science Specialization in data mining, digital culture studies and philosophy of technology [1] Université de Technologie de Compiègne (UTC), Compiègne, France
Jul 2007	Scientific baccalaureate , Lycée Jean Calvin, Noyon, France

Research fellowship

2023 – ...	Associate researcher of the Complex Systems Institute of Paris Île-de-France
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2023 – ...	Member of the working group <i>Patrimoines et mémoires du numérique</i> (CIS CNRS)
2018 – ...	Member of the working group <i>Internet, IA et Société</i> (CIS CNRS)
2018 – 2024	Fellow of the <i>Institut Convergences Migration</i> ; member of the <i>Dynamics</i> department

— Involvements in research projects

Member of the ERC Socseemics (CNRS, Marc Bloch Center)	ongoing
Invited scholar of the ANR CulturIA (Thalim, CIS, INRIA)	ongoing
Invited scholar of the FacileRR project (INRAE)	ongoing
Invited scholar of the ANR ScientIA (Gemass, CIS)	ongoing
Invited scholar of the project <i>A history of online virality</i> (C ² DH University of Luxembourg) [13]	ended (2023)
Co-editor of the roadmap <i>Digital media and human well-being</i> for the European Commission and co-organizer of the closing conference (Paris – Dec 2022) [14]	ended (2023)
Member of the ANR Epique (ISCFIF, IHPST, IRISA, LIP6) [7,8]	ended (2021)
Member of the e-diasporas project (FMSH, Migrinter, Télécom ParisTech, INA) [2,3,4,5,6,10]	ended (2018)

— Research projects written and submitted

Solo research residency at the Bibliothèque National de France	submitted 09/2023 - accepted
Scientific coordinator of the ANR <i>Clinobs</i> (3 partners) [9]	submitted 10/2023 - pending submitted 11/2022 - rejected (B)
Member of the coordination team of the UE project <i>Nodes</i> (4 partners)	submitted 09/2022 - accepted
Member of the coordination team of the UE project <i>Agoraware</i> (11 partners)	submitted 03/2020 – rejected (9.5)

— Involvements in free software development

2023 – ...	Creator of the Dendron module for exploring web archives [13]
2019 – ...	Contributor of the free text mining software GarganText [11,12]
2013 – 2015	Contributor of the free search engine library Lucene

— Teaching and student supervision

2022 - 2023 2021 - 2022	Creator of the course “ <i>Computational social sciences</i> ”	M2 “ <i>Data Science et Société Numérique</i> ”	Université Gustave Eiffel	vacataire	18h
2022 - 2023	Creator of the course “ <i>Visualization and exploratory data analysis</i> ”	M1 “ <i>Économie de la culture et numérique</i> ”	Paris 1 Sorbonne	vacataire	15h
2023	Guest lecturer of the course “ <i>Dynamics of Knowledge and Sciences</i> ”	L2 “ <i>Ingénieur data et humanités digitales</i> ”	Sciences-Po Saint-Germain-en-Laye	vacataire	3h
2021 - 2023	Supervisor of the master thesis of Ali El Amrani and Busra Kulakli (Université Gustave Eiffel)				

I also trained scholars : “*Introduction to Web Mining*” for the fellows of the Institut Convergences Migrations (2022), “*From Archives to Data*” for the fellows of the Institut National de l’Audiovisuel (2023), “*Dynamics of Knowledge*” for the fellow of the CNRS ANF-TDM (2021-2023). I’m a permanent member of the GarganText’s training team (2020-2023).

— Awards

Sep 2023	The <i>web cernes</i> [13] are part of the 2023's best data visualizations list awarded by the Data
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	Visualization Society (<i>iib awards 2023</i>)
Feb 2020	Thesis prize (<i>prix de la recherche 2019</i>) awarded by the National Audiovisual Institute (INA)
Aug 2015	3-year thesis grant from the Fondation Mines-Télécom (<i>grant futur et ruptures 2015</i>)

— Researcher's competitions

2023	CNRS – CRCN – qualified for the interview by the CID53
2022	CARISM Paris-Panthéon-Assas – CPJ – qualified for the interview – ranked second CNRS – CRCN – qualified for the interview by the CID55

— Languages and technical skills

Natural languages: French, English, notions of German and Chinese – **Programming language:** Haskell, Scala, Python, Javascript, Html, Css, Bash – **Data:** Postgres, Hadoop, Spark – **Statistics:** R – **Search engines:** Lucene, Solr, Elasticsearch – **Visualization:** D3, Processing, Gephi, GarganText

— Publications

	Overview
5	Refereed international journals
2	Refereed french journals
3	Proceedings of refereed international conferences
2	Proceedings of refereed french conferences
2	Book chapters
1	International scientific reports

Refereed international journals:

- [13] Lobbé, Q. (2023). Continuity and discontinuity in web archives: a multi-level reconstruction of the *firsttuesday* community through persistences, continuity spaces and web cernes, *Internet Histories*, DOI: [10.1080/24701475.2023.2254050](https://doi.org/10.1080/24701475.2023.2254050)
- [9] Lobbé, Q., Chavalarias, D., Delanoë, A., Ferrand, G., Cohen-Boulakia, S., Ravaud, P., & Boutron, I. (2022). Toward an observatory of the evolution of clinical trials through phylomemy reconstruction: the COVID-19 vaccines example. *Journal of clinical epidemiology*, 149, 36–44. <https://doi.org/10.1016/j.jclinepi.2022.05.004>
- [8] Lobbé, Q., Delanoë, A., & Chavalarias, D. (2022). Exploring, browsing and interacting with multi-level and multi-scale dynamics of knowledge. *Information Visualization*, 21(1), 17-37. <https://doi.org/10.1177/14738716211044829>
- [7] Chavalarias, D., Lobbé, Q., & Delanoë, A. (2022). Draw me Science: Multi-level and multi-scale reconstruction of knowledge dynamics with phylomemies. *Scientometrics*, 127(1), 545–575. <https://doi.org/10.1007/s11192-021-04186-5>
- [6] Lobbé, Q. (2021). Multi-scale methods for reconstructing collective shapes of digital diasporas. *Humanit Soc Sci Commun* 8, 150. <https://doi.org/10.1057/s41599-021-00828-4>

Refereed french journals:

- [10] Diminescu, D. & Lobbé, Q. (2022). « Comme à la maison ». Les mots de l'hospitalité en ligne. *Hommes & Migrations*, 1337, 79-88. <https://doi.org/10.4000/hommesmigrations.13962>
- [2] Lobbé, Q. (2016). Cartographier les jungles. *Plein droit*, (3), 7-10. <https://doi.org/10.3917/pld.110.0011>

Proceedings of refereed international conferences:

- [15] Lobbé, Q. (2024, accepted). Multi-level organisation of the First Tuesday community after the dot-com bubble bursting : an historical social network analysis based on web archives, *Research Infrastructure for the Study of Archived Web Materials*. RESAW 2023
- [4] Lobbé, Q. (2018). Where the Dead Blogs Are: A Disaggregated Exploration of Web Archives to Reveal Extinct Online Collectives. In: Dobрева, M., Hinze, A., Žumer, M. (eds) *Maturity and Innovation in Digital Libraries*. ICADL 2018. Lecture Notes in Computer Science, vol 11279. Springer, Cham. https://doi.org/10.1007/978-3-030-04257-8_10
- [3] Lobbé, Q. (2018). Revealing Historical Events Out of Web Archives. In: Méndez, E., Crestani, F., Ribeiro, C., David, G., Lopes, J. (eds) *Digital Libraries for Open Knowledge*. TPDL 2018. Lecture Notes in Computer Science, vol 11057. Springer, Cham. https://doi.org/10.1007/978-3-030-00066-0_30

Proceedings of refereed french conferences:

- [12] Lobbé, Q., Delanoë, A., (2023). Cartographier le paysage sémantique de la science des systèmes complexes, *Res-Systemica*, ISSN 1762-5890, volume 25, *Rochebrune 2022*
- [1] Fen-Chong, J., Bilcke, J., & Lobbé, Q. (2012). Modéliser les mobilités quotidiennes à partir de données d'usage des téléphones mobiles. In *La modélisation des flux au service de l'aménagement urbain*. Actes du colloque GIS Modélisation Urbaine

Book chapters:

- [11] Lobbé, Q., Chavalarias, D., & Delanoë, A. (2023). *Defining Level and Scale as Socio-technical Operators for Mining Digital Traces*. *Zoomland*, 407-426. <https://doi.org/10.1515/9783111317779-015>
- [5] Lobbé, Q., & Diminescu, D. (2020). Chapitre 3. Naviguer sur le Web à la Bpi : Spécificités d'un usage en public. In Evans, C. (Ed.), *L'expérience sensible des bibliothèques : Six textes sur les publics des grands établissements*. Paris : Éditions de la Bibliothèque publique d'information. <https://books.openedition.org/bibpompidou/2489>

International scientific reports:

- [14] David, C., Casilli, A.A., Delanoë, A., Rosnay, M.D. de, Gelder, B.D., Frau-Meigs, D., Jouve, B., Dana, D., Amor, N.B., Boros, A., Brunori, M., Brites, M.J., Caldarelli, G., Datchary, C., Fassi, L., Hernandez, L., Nowak, A., Víctor, R.-D., Slater, M., Buchanan, M., Horodecki, P., Kotilainen, S., Lassègue, J., Lazega, E., Lobbé, Q., Lukowicz, P., Mcdougall, J., Meacham, D., Omodei, E., Orben, A., Patriarche, G., Pearce, D., Pediconi, M.G., Romani, S., Roth, C., Sackur, J., Schafer, V., Fabrizio, S., Soria-Frisch, A., Holstein, E.S.V., Tummolini, L., Zichichi, M., Chavalarias, D., (2023). *Toward a Research Agenda on Digital Media and Humanity Well-Being (Scientific Roadmap for the European Commission)*. <https://hal-lara.archives-ouvertes.fr/hal-04091733/>

— Conferences, Seminars and Communications

2024 :

- Lobbé, Q. (2024 – **invited lecturer**). *Peut-on observer des migrations numériques depuis les archives web ?*, In Rencontres BnF DataLab 2024, Bibliothèque Nationale de France, Paris, France
- Lobbé, Q., Roth, C., Mangold, L. (2024). Building stability layout for visualizing temporal series of stochastic block models. In *NetSciX 2024*, Venice, Italy

2023 :

- Lobbé, Q. (2023). Visualizing dynamic stochastic block models, In *Winter symposium CSS Team*, Marc Bloch center, Berlin, Germany
- Lobbé, Q. (2023 – **invited panel participant**). With Zwer, N., Dakhli, L., Picker, M., Velasco, J., In *Séminaire l'usage de la cartographie dans la recherche*, Marc Bloch center, Berlin, Germany
- Lobbé, Q. (2023 – **invited lecturer**). Données, archives et traces. In *Séminaire Accompagner les chercheurs et valoriser les collections dans le cadre de la recherche*, Institut national de l'audiovisuel, Paris, France
- Lobbé, Q. (2023 – **invited lecturer**). From digital traces to historical dynamics of social-technical systems. In *Computational Social Sciences Seminar*, Marc Bloch center, Berlin, Germany
- Lobbé, Q. (2023 – **invited lecturer**). Dépasser les discontinuités dans les grands corpus d'archives web. In *Seminar Archives Henri Poincaré – Humanités numériques et fonds patrimoniaux*, MSH Lorraine, Nancy, France

- **Lobbé, Q.** (2023 – **invited panel participant**). With Bermès, E., Bunout, E., Severo, M., Vidal, G. In *Les données du patrimoine numérique – table ronde*, CIS CNRS, Paris, France
- **Lobbé, Q.** (2023). Continuity and discontinuity in web archives, In *RESAW 2023*, Marseilles, France
- **Lobbé, Q., Chavalarias, D., Delanoë, A., Ferrand, G., Cohen-Boulakia, S., Ravaud, P., & Boutron, I.** (2023). Reconstructing the evolution of Covid-19 vaccines research. In *GarganFest 2023*, Paris, France
- **Lobbé, Q.** (2023). The phylomemy reconstruction process. In *Workshop CulturIA project*, Paris, France
- **Lobbé, Q.** (2023 – **invited lecturer**). Structures et dynamiques des formes collectives de savoirs. In *Séminaire « Systèmes complexes en sciences sociales »*, CAMS EHESS, Paris, France

2022 :

- **Lobbé, Q.** (2022 – **invited lecturer**). Re-Spatializing the Web. In *Digeing enlightening talk series*, Venice, Italy
- **Lobbé, Q., Chavalarias, D., Delanoë, A.** (2022). Reconstructing the multi-level dynamics of knowledge. In *French Regional Conference on Complex Systems (FRCCS2022)*, Paris, France
- **Lobbé, Q., Chavalarias, D., Delanoë, A.** (2022). On level and scale in digital humanities. In *Workshop Zoomland project*, Université du Luxembourg, Luxembourg
- **Lobbé, Q.** (2022). The phylomemy reconstruction process. In *Workshop SciencIA project*, Paris, France
- **Lobbé, Q., Delanoë, A.** (2022). Histoire des sciences quantitative avec GarganText. In *ANF TDM 2022*, Paris, France
- **Delanoë, A., Lobbé, Q.** (2022). GarganText, un logiciel libre de cartographie des connaissances. In *Innovative SHS*, Aubervilliers, France
- **Diminescu, D., Lobbé, Q.** (2022 – **invited lecturer**). Les mots de l’immigration. In *Conférence réseaux sociaux et migrations*, Palais de la porte Dorée, Paris, France
- **Lobbé, Q.** (2022). Introducing persistences and web cernes for visualizing the evolution of archived web sites. In *Workshop Hivi project*, Université du Luxembourg, Luxembourg
- **Lobbé, Q., Delanoë, A.** (2022). Cartographie collective de la science des systèmes complexes. In *Journées Scientifiques de Rochebrune*, Rochebrune, France

2021 :

- **Lobbé, Q.** (2021). Digital data and migration traceability. In *Workshop institut convergence migrations*, Collège de France, Paris, France
- **Lobbé, Q., Chavalarias, D., Delanoë, A.** (2021). Using phylomemies to reconstruct the semantic space of french political communities in Twitter. In *International AAAI Conference on Web and Social Media (ICWSM2021)*, Online
- **Lobbé, Q., Chavalarias, D., Delanoë, A.** (2021). Multi-level and multi-scale visualization of knowledge dynamics. In *French Regional Conference on Complex Systems (FRCCS2021)*, Online
- **Lobbé, Q., Chavalarias, D., Delanoë, A.** (2021). The phylomemy reconstruction process. In *Joint Sunbelt and NetSci Conference (Networks2021)*, Online
- **Lobbé, Q., Chavalarias, D., Delanoë, A.** (2021). A phylomemy of complex systems science. In *Conference on Complex Systems (CCS2021)*, Lyon, France
- **Lobbé, Q., El Amrani, A.** (2021), Phylospécies, In *Rencontres Art et Science (Artex2021)*, Paris, France
- **Lobbé, Q.** (2021). The multi-level traces of online diasporas, In *Digeing kick off meeting*, Madrid, Spain
- **Lobbé, Q., Chavalarias, D., Delanoë, A.** (2021). Phylogénie des connaissances avec GarganText. In *ANF TDM 2021*, Paris, France

2020 :

- Well ... Covid ...

2019 :

- **Lobbé, Q., Delanoë, A., & Chavalarias, D.** (2019). Mining the digital society with GarganText. In *Science Forum South Africa*, Pretoria, South Africa
- **Chavalarias, D., Lobbé, Q.** (2019). The reconstruction of scientific phylomemies as a tool for the study of the life sciences, In *Digital history and philosophy of science (ISHPSSB2019)*, Oslo, Norway
- **Lobbé, Q.** (2019). Using web fragments for conducting desegregated explorations of web archives, In *RESAW 2019*, Amsterdam, Nederland

- **Lobbé, Q.** (2019). Espace et mémoire des archives Web, In *Journées Scientifiques de Rochebrune*, Rochebrune, France
- **Lobbé, Q.** (2019). Reconstructing the collective shapes of digital diasporas, In *Digital Diasporas Interdisciplinary Perspectives*, London, England

2018 :

- Diminescu, D., Jacomy, M., **Lobbé, Q.** (2018). The archives of the e-Diasporas Atlas, In *International Forum on Migration Statistics (IFMS2018)*, Paris, France
- **Lobbé, Q.**, Diminescu, D., Senellart, P. (2018). Where the dead blogs are : a disaggregated exploration of Web archives to reveal extinct online collectives. In *International Conference on Asia-Pacific Digital Librerie (ICADL2018)*, Hamilton, New Zealand
- **Lobbé, Q.**, Diminescu, D., Senellart, P. (2018). Revealing historical events out of Web archives. In *International Conference on Theory and Practice of Digital Libraries (TPDL2018)*, Porto, Portugal
- **Lobbé, Q.** (2018 - **invited lecturer**). Using web fragments to reveal extinct online collectives. In *Web Archiving : Best Practices for Digital Cultural Heritage*, Jerusalem, Israël
- **Lobbé, Q.** (2018). Les traces numériques de la crise des réfugiés. In *Workshop DSRA*, Paris, France

2017 :

- **Lobbé, Q.** (2017). Historical events detection in web archives. In *Conference Inria Industrie*, Paris, France
- **Lobbé, Q.**, Diminescu, D., Senellart, P. (2017 - **invited lecturer**). Introducing Web Fragment. In *Seminar MédiaLab*, SciencesPo Paris, France
- **Lobbé, Q.**, Diminescu, D. (2017). Mapping the digital diasporas. In *Journée pour une Europe créative*, Paris, France
- **Lobbé, Q.** (2017). An exploration of web archives beyond the pages. In *DIG Seminar*, Télécom ParisTech, Paris, France
- **Lobbé, Q.** (2017). Diachronic exploration of web archives. In *Meeting Futur & Ruptures*. Télécom ParisTech, Paris, France

2016 :

- **Lobbé, Q.** (2016). Mining web archives through time. In *Big Data and Market Insights*. Paris, France
- **Lobbé, Q.** (2016). Of maps and refugees. In *Culture Analytics*. UCLA, USA
- **Lobbé, Q.** (2016). Cartographie critique de la crise des réfugiés. In *La géomatique au service des réfugiés*. Université de Cergy-Pontoise, France

2012 :

- Fen-Chong, J., **Lobbé, Q.**, & Bilcke, J. (2012). Revealing foreign visitors mobility practices in Paris using mobile phone data. In *American Association of Geographers Annual Meeting*. NewYork, USA