

## ETIENNE OLLION

CNRS Research Fellow (CREST)

Professor, Ecole Polytechnique

[etienne.ollion@polytechnique.edu](mailto:etienne.ollion@polytechnique.edu)

**Research areas:** Political sociology, Computational social sciences

### Education

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- 2021 **Habilitation** at Université Paris-1  
2007-2012 **PhD.** in Sociology at Ecole des Hautes Etudes en Sciences Sociales (Paris).  
2006-2007 **Master Degree** in Political Science, University Paris-1 Panthéon Sorbonne.  
2004-2005 **Agrégation** in Economics and Social Sciences.  
2003-2004 **Master Degree** in Sociology and in Economics, University Paris-1 Panthéon Sorbonne.

### Professional Experience

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- 2021-  
2014- 2020 CNRS Research Fellow and Professor at Ecole polytechnique  
CNRS Junior Research Fellow and Associate Professor at Ecole polytechnique  
Visiting professor: École normale supérieure (2013-2016), University of California-Berkeley (Spring 2015, Fall 2016); Instituto de Alta Estudios Sociales (Buenos Aires, Spring 2015), Sciences Po-Paris (2014 - 2016), Polytechnique (Fall 2017), ENSAE (November 2017), University of Chicago (Spring 2018), Linköping Universitet (Spring 2019), Chalmers Institute of Technology - Göteborg, intensive course, 2019).  
2013-2014 Lecturer at the Département de Sciences Sociales de l'École Normale Supérieure (Paris).  
2012-2013 Post-Doctoral Student, Sciences-Po (Centre de Sociologie des Organisations). Researching on the *Go Science* project (funded by the French National Research Association, 2011-2014).  
2010-2012 Adjunct lecturer in Political Science, Université Paris-1 Panthéon-Sorbonne (and part time lecturer at Sciences Po Paris).  
2007- 2010 Visiting Lecturer, Department of Sociology, University of Chicago.  
2005-2006 Visiting Lecturer, Romance Literature and Languages Department, University of Chicago.

### Publications

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#### BOOKS

- Les candidats. *Novices et professionnels en politique*, to be published in september 2021, Presses universitaires de France [*Homo Politicus. Amateurs and Professionals in Politics*, English translation under way]
- *Raison d'État. Histoire de la lutte contre les sectes en France*, La Découverte, 2017. [Reason of State. A History of the 'French War on Cults']
- (with J. Boelaert and S. Michon), *Métier: Député. Enquête sur la professionnalisation de la politique*, Raisons d'agir, 2017, [MPs at Work. An Investigation on the Professionalization of Politics in France].
- (with A. Christin) *La sociologie contemporaine aux États-Unis*. La Découverte, 2012. [Contemporary Sociology in the USA]

#### ARTICLES IN PEER-REVIEWED JOURNALS

- (with J. Boelaert) "Les sommets du palais. Analyser l'espace parlementaire avec des cartes auto-organisatrices," in *Revue française de science politique*, september 2020 [The Peak of the Palace. Analyzing Parliamentary Practices with Self-Organizing Maps].

- “Changer de vie. Les novices et la condition politique au XXIème siècle,” *Politix*, 2020 [Changing life. Political Novices and the Political Condition in the 21<sup>st</sup> Century]
- (with J. Boelaert and S. Michon) “Le temps des élites. L’ouverture sélective du champ politique français en 2017,” *Revue Française de Science Politique*, 2018/3. [The Elite’s Moment. The Partial Opening of the French Political Field in 2017].
- (with J. Boelaert) “The Great Regression. Machine learning, Econometrics, and the Future of Quantification,” *Revue Française de Sociologie*, 2018/5.
- (with S. Michon) “Retour sur la profession politique”, in *Sociologie du travail*, March 2018. [On the Professionalization of Politics. Critical Literature Review and Perspectives]
- (with A. Abbott) “French Connections. The Receptions of French Sociology in the USA (1970-2012)”, in *European Journal of Sociology*, 2016, p. 331-372.
- (with J. Boelaert, N. Mariot and J. Pagis) “Les aléas de l’interdisciplinarité. Genèses et les sciences sociales françaises (1990-2014)”, in *Genèses*, octobre 2015, pp. 20-49. [*The Vicissitudes of Interdisciplinarity. Geneses and the French Social sciences (1990-2014)*]
- (with J. Boelaert) “Au-delà des big data. Les sciences sociales et la multiplication des données numériques”, *Sociologie*, vol 5(3), 2015, pp. 276-296. [Beyond Big Data. Social Sciences Face the Digital Data Avalanche].
  - Adaptation: “L’abondance et ses problèmes. Big data, open data et recherche en sciences sociales”, *Informations sociales*, mars 2016.
- “Des mobilisations discrètes. Sur le plaidoyer et quelques transformations de l’action collective contemporaine”, in *Critique internationale*, juin 2015, pp. 17-31.
- (with M. Fourcade and Y. Algan) “The Superiority of Economists”, in *Journal of Economic Perspectives*, 2015
  - Translation (Russian) in *Вопросы Экономики* [Voprosy Ekonomiki (Moscou)], vol 7, 2015
  - Translation (Spanish) in *Revista de Economía Institucional* (Bogotá), december 2015.
  - Translation (Swedish) in *Fronesis*, fall 2016.
- “Sommet d’information. Mobilisations feutrées et production de l’information à un sommet international, in *Politiques de communication*, 1, 2013, pp. 35-57 [Adapted translation from *Summits of information*, 2010].
- “De la sociologie en Amérique. Éléments pour une sociologie de la sociologie étasunienne contemporaine”, *Sociologie*, November 2011, pp. 279-294. [Sociology in America. Elements towards a Sociology of Contemporary US Sociology]
- “Summits of Information. Advocacy Officers, Journalists, and the Making of International Summits”, *Qualitative Sociology*, Septembre 2010, n°33 (3), p. 211-227.
- “La secte sécularisée. Processus de requalification conceptuelle dans la lutte contre les sectes,” *Genèses*, March 2010, pp. 25-47. [Secularizing Cults. On the Redefinition of Cults Movements in France]
- “A ‘luta contra as seitas’ revisitada’. Deslocamentos e desenvolvimentos de oposições em seitas em seitas na França a partir de 1970”, *Religare*, June 2009, pp. 75-92.
- “(Que) Faire de la sociologie publique ? ” *Actes de la Recherche en Sciences Sociales*, March 2009, pp. 112-118 [Doing Public Sociology].
- “Le jeudi de Charonne. Notes sur l’historien et l’événement.” *Genèses*, n°69, novembre 2007, pp. 128-138. [Charonne’s Thursday. Notes on History and Events – on A. Dewerpe’s book *Charonne, 8 mars 1962*. [*Anatomie d’un massacre d’Etat*]

#### BOOK CHAPTERS

- (with A. Abbott) : “Quarante ans de sociologie française aux États-Unis. Notes sur la réception des sociologues Français outre-Atlantique (1970-2010)”, in D. Demazière et C. Paradeise, *Transmissions. Une communauté en héritage*, 2015. [Forty years of French Sociology in the USA. Notes on the Reception of French Sociologists (1970-2010)]
- “Pierre Bourdieu”, commented bibliographic entry in Jeff Manza (dir.), *Oxford Bibliographies Online: Sociology*, Oxford University Press, 2012 (70 000 signs).
- “Comment les Témoins de Jéhovah sont redevenus une ‘secte’? Les définitions changeantes du sectarisme en France”, in Zwilling A.-L. (dir.), *Minorités religieuses, religions minoritaires dans l’espace public*, Presses de l’Université de Strasbourg, 2014. [How the Jehovah Witnesses became a cult (again). On the Changing Definition of Cults in France]

- “The French ‘War on Cults’ revisited. Three remarks on an ongoing debate,” in E. Barker & D. Kirkham, *States Responses to Minority Religions*, Ashgate publishers, 2014.

#### IN PROGRESS

- (with S. Do and R. Shen) “The Augmented Social Scientist. How to Qualitatively Analyze Thousands of Texts with Supervised Machine Learning”
- (with J. Boelaert) “Living in Politics. Careers and Practices after the Second Moment of Political Professionalization.”
- (with J. Boelaert) “How to Represent the Social Space? Methods and concepts for an Enriched Topography of Social Fields.”

#### OTHER ARTICLES

- “Les sciences sociales, contre la data science ?”, *Regards croisés sur l'économie*, 2019 [Social sciences and the forgotten roots of data science].
- (with J. Boelaert and S. Michon) “Le temps long de la politique” (*Pouvoirs*, April 2017).
- (with J. Pacewicz) “Et Obama conquiert l’Amérique”, *Mouvements*, January 2009, pp. 174-184.
- “L’abondance et ses revers. Big data, open data, et la recherche sur les questions sociales”, in *Informations sociales*, 2016, p. 70-79.
- (with J. Siméant) “Internationales et usages locaux du plaidoyer”, introduction to the thematic issue on “Advocacy and advocacy officers” in *Critique internationale*, June 2015.
- “Activists. Social Movements and Protest in Brussels”, in H. Michel and E. Lambert Abdelgawad (eds.), *Dictionary of European Actors*, Bruxelles, Larcier, 2015
  - Translation (French) in H. Michel and E. Lambert Abdelgawad (eds.), *Dictionnaire des acteurs de l’Europe*, Larcier 2015
- (with J. Pacewicz) “Et Obama conquiert l’Amérique ? La victoire démocrate de 2008 revisitée”, *Mouvements*, January 2009, pp. 174-184.

#### BOOK REVIEWS

- Gardey, D. *Le linge du Palais-Bourbon. Corps, genre et matérialité à l’ère démocratique*, Editions Le bord de l’eau, 2015, in *Sociologie du travail*, 2016.
- Pétric, B. (dir.), *Democracy at large, NGO, Political Foundations, Think Tanks and International Organizations*, Palgrave MacMillan, 2012, 296p in *Revue Française de Science Politique*, December 2013.
- Prakash, A and M.K. Gugerty, *Advocacy Organizations and Collective Action*, 2010. Cambridge: Cambridge University Press, 334p. *Revue Française de Science Politique*, 2014.
- Steensland, Brian, *The Failed Welfare Revolution. America’s Struggle over Guaranteed Income Policy*, Princeton, Princeton University Press, 2008, 304 p. in *Annales. Histoire et Sciences Sociales*, 2014.
- (with E. Didier) Calhoun, C. (ed.), *Sociology in America: A History*, University of Chicago Press, 2008, 913 p. in *Revue Française de Sociologie* (March 2010).
- Israël L. et D. Voldman, “Michaël Pollak. De l’identité blessée à une sociologie des possibles”. Paris, éditions complexes, “Histoire du temps présent”, 2008, 265 p. in *Sociologie du Travail*, décembre 2010.
- Vauchez A. et L. Willemez, *La justice face à ses réformateurs (1980-2006)*. Paris, PUF, Droit, 2007, 260p. in *Raisons Politiques*, December 2007.

#### OTHER

- (with M. Hauchecorne) “What is the ‘New Sociology of Ideas.’ A Discussion with Charles Camic and Neil Gross”, in [www.transeo-review.com](http://www.transeo-review.com), n°1, January 2009.
- Interview with Alain Dewerpe on his book “Charonne, 8 février 1962. Anthropologie historique d’un massacre d’État. *Vacarme*, n°40, summer 2007.

#### GUEST EDITOR FOR SPECIAL ISSUES

- *Varia* in *Actes de la recherche en sciences sociales*: 2016/3, 2017/1, 2017/5, 2019/3.
- (with J. Siméant) *Les politiques du plaidoyer*, in *Critique internationale*, 2015.

- Special issue on Public Sociology (featuring texts by A. Abbott, C. Calhoun, D. McAdam, P. Hill Collins), in *Actes de la Recherche en Sciences Sociales*, March 2009.

## Translations (selection)

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### BOOK

- Pierre Bourdieu, Loïc Wacquant, “Invitation à la sociologie réflexive”, Le Seuil, 2014. [New, complete edition and retranslation of *An Invitation to Reflexive Sociology*]

### ARTICLES AND BOOK CHAPTERS

- Javier Auyero, “Faire patienter, c’est dominer”, *Actes de la recherche en sciences sociales*, 2018.
- (with M. Hauchecorne) Andrew Abbott, “Le monde est un monde d’événements”, *Raisons politiques*, 2015.
- (with M. Hauchecorne) Michael Burawoy, “Pour la sociologie publique”, *Actes de la recherche en sciences sociales*, pp. 122-144.
- Megan Comfort, “C’est plein de mecs bien en taule. Incarcération de masse et transformation des relations amoureuses aux Etats-Unis”, *Actes de la Recherche en Sciences Sociales*, n°169, Paris, September 2007, pp. 21-47.
- (with M. Hauchecorne) André Béteille, “Etre anthropologue chez soi : un point de vue indien”, *Genèses*, n°67. Paris, June 2007.
- Loïc Wacquant, “Un trafiquants de chair à l’œuvre : souffrance, pouvoir et profit dans l’économie de la boxe professionnelle”, *Actuel Marx*, May 2007 (translation and edition)
- (with A. Lentacker) Viviana Zelizer, “L’argent social”, *Genèses*, n°65. Paris, December 2006, pp. 126-137.
- Brenda Cossman, “Dresser les indisciplinés : Les hors-la-loi sexuels et la Cour suprême du Canada” in *La liberté sexuelle*, dir. D. Borrillo, D. Lochak, Presses Universitaires de France. Paris, 2005, pp. 187-218.

## TEACHING

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### Full courses (lectures with discussion sessions and TAs)

- Introduction to statistics with R (ENS, 2013, Master level)
- Statistics and computer analyses (Paris-1, 2012, entry-level)
- Introduction to Sociology (Sciences Po, 2011 & 2012, Bachelor).

### Lectures

- Introduction to Sociology (ENSAE, 2019-...)
- Sociology of the Political Field (Ecole polytechnique, 2018-...)
- General Sociology (Ecole polytechnique, 2017-...)
- From Archives to Algorithms. An Introduction to Quantitative Description (undergraduate/graduate course, Chicago, 2018)
- From Archives to Algorithms. An Introduction to Quantitative Description (intensive course, doctoral program, Berkeley, 2017)
- (with J. Boelaert) Introduction to Machine Learning (doctoral program, University of Strasbourg, 2016)
- Digital Methods for Social Sciences (doctoral program, Berkeley, 2016)
- Sociological Theory (University of Strasbourg, 2015, Master level)
- (with A. Hobeika) : Big data and social sciences (ENS, 2013, Master and doctorate level)
- Readings in the Social Sciences [Social Theory] (ENS, 2013- 2014, Master level)
- Sociology in the USA. Theories – Actors – Dynamics (ENS, 2013- 2014, Master level).
- (with A. Christin) Sociology in the USA – Contemporary Perspectives (ENS-Ulm, 2011 - 2013, Master level).
- Methods of Sociological Investigation (Paris-1, 2010, entry-level).
- Social Theory: Classical & Contemporary Perspectives (University of Chicago, 2009, upper level).
- Social Movements and Globalization (University of Chicago, 2009, upper level)
- Bourdieu and Contemporary Social Theory (University of Chicago, 2007, upper level)
- French Through Reading (University of Chicago, summer 2006, Ph.D.)

### TA-ing

- Introduction to Statistics (Paris-1, 2011, entry-level)
- Epistemology of the Social Sciences (Paris-1, 2011, entry-level)
- Introduction to Sociology (Sciences Po, 2011, entry-level)
- French Society, French Social Science (University of Chicago, 2008 and 2009)
- Power, Identity & Resistance I [Classics in Political Philosophy] (University of Chicago, 2007, *entry level*)
- Power, Identity & Resistance II [Classics in the Social Sciences] (University of Chicago, 2007, *entry level*)

### Supervising, tutoring:

- PhD supervision
  - 2021-..., Felix Lennert
  - 2020-..., Vitalina Dragun (with F. Denord, CESSP – Université Paris-1)
  - 2020-..., Nilo Schwencke (with M. Sebag, LRI – Université Paris-Saclay)
  - 2020-..., Rubing Shen (with J.P. Cointet, Medialab, Sciences Po)
- PhD defense committee H. Baillot, 2017.
- Master thesis supervisor (ENS-Paris, 2014-); Research project supervisor (MS in Computer science, Lille: 2014-2018; Polytechnique 2017-; ENSAE 2019-).
- *B.A. Preceptor*, University of Chicago, 2006.

## Conferences (selection)

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### ORGANIZATION

- (avec F. Levin) « Ce qui échappe à l'IA » (What escapes AI). Interdisciplinary conference on AI, Ecole polytechnique, September 2021.
- (with A. Lambert & A. Bringé), “Sciences XXL. Ce que l’abondance et la diversité des données numériques font aux sciences sociales” (March 16th & 17th, 2017).
- (with P. Blavier, S. Coavoux, J. Dauvieu, A. Fine, P. Mercklé, A. Perdoncin) Co-organizer of the colloquium “Enseigner le quanti. Les sciences sociales face aux chiffres”, Maison des sciences économiques, June 5th 2015.
- (with J. Siméant) Co-organizer of the panel on “Plaidoyer et *advocates*. Acteurs et formats internationaux des mobilisations”, meetings of the French Political Science Association, July 2013.
- (with A. Hobeika et T. Venturini) Co-organizer of a plenary session on “la ‘révolution des données’ en science politique. Enjeux et futur des ‘data social sciences’”, meetings of the French Political Science Association, July 2013.
- (with M. Hauchecorne), July 8th 2011, plenary session on the internationalization of social sciences, Meetings of the French Sociological Association, Grenoble (panel: G. Sapiro, L. Jeanpierre, C. Martin, A. Abbott, J.-L. Fabiani).

### KEYNOTES AND INVITED PRESENTATIONS (SELECTION)

- After the deluge. Social sciences in the digital data abundance, Colloquium « Data & documents », Information Science, Nancy, september 2020.
- “Articulated intelligence. What can machine learning do for (and to) the social sciences,” SASE conference, Amsterdam, July 2020.
- “Our Paper Tools in the Digital Age. Past, Present and Future of Visualization in the Social Sciences,” CNRS Winter School on Data Visualization, November 12th 2018.
- “The Great Regression. Econometrics, Machine Learning, and the Future of Quantification,” Berkeley Sociology Colloquium, April 23rd 2018.
- Invited speaker by the French Embassy in Canada for a series of conferences on digital data.
- “Au-delà des big data. Les sciences sociales et la révolution des données”, keynote speaker at the Société francophone de sondages meetings, October, 15th 2016.

- “La abundancia y sus problemas. Qué hacer con los datos digitales en las ciencias sociales?”, Instituto de Altos Estudios Sociales, Buenos Aires, March, 22<sup>nd</sup> 2016.
- “The Superiority of Economists,” invited talks at Colegio Carlo Alberto, Torino; EHESS; Banque de France).
- (with A. Abbott), “Sociologues et sociologie français aux États-Unis”, keynote speaker at the colloquium “Les sociologues français de 1970 à nos jours” (organization D. Demaziere, D. Lorrain et C. Paradeise).
- “Sociology in America”, Distinguished Lecture Series, Sciences Po, 2013.

#### SEMINARS AND WORKSHOP PRESENTATIONS

- « Computational Social Sciences – Overview & Perspectives » (Doctoral program, Paris-1).
- « Savoirs Liés. Machine Learning et Sciences sociales » (Lausanne 2018, EHESS February 2019).
- « Raison d’État. Histoire de la lutte contre les sectes » (NYU, march 2018 ; Lausanne, october 2019).
- « La révolution en velours. L’ouverture sélective du champ politique français en 2017 : une perspective historique », Sciences Po - CEVIPOF, Paris, February 2018.
- « Métier : député. Enquête sur la professionnalisation de la politique » (Paris-1, graduate seminar, january 2018 ; Paris-2 graduate seminar, february 2018).
- « Comment représenter l’espace social ? Machine Learning, analyse géométrique de données, et théorie des champs » (CCOP workshop, Berkeley, november 2016 ; Sciences Po - OSC, january 2017).
- « Au-delà des big data. Les sciences sociales et la révolution des données » (Sciences Po october 2014 ; UC Berkeley march 2015 ; Modal’X-Paris 1, Paris-X may 2015 ; Quantitativisme réflexif ENS-Cachan may 2015 ; Strasbourg – SAGE may 2015 ; Sciences Po Strasbourg, ENS-EHESS december 2015, Centre d’étude pour la citoyenneté démocratique, University of Montréal, October 2016, Université du Québec à Montréal, October 2016, Fondation Cournot, Polytechnique-MSE, march 2018).
- « The Superiority of Economists » (Colegio Carlo Alberto, february 2015, « Disciplines et scientificité » workshop, EHESS, january 2016).
- “America! America? The appropriations of French Sociology in the USA,” January 2015, EHESS.
- “Les sciences sociales n’ont pas (vraiment) besoin des big data”, invited talk at the “Big data, sciences sociales et entreprises” colloquium, Collège de France, June 2<sup>nd</sup>, 2014.
- “De la sociologie en Amérique aujourd’hui. Approches classiques et nouvelles perspectives”, Invited talk at the Université Catholique de Louvain (chaire Jean Lecler), February 3<sup>rd</sup>, 2014.
- “America ! America ? Big data et étude de la réception des sociologues français aux Etats-Unis”, invited presentation at the SAMM department (Statistiques Appliquées à la Modélisation Multidisciplinaire, Université Paris-1), January 17<sup>th</sup>, 2013.
- “Publier à l’étranger ?”, présentation au séminaire de rentrée du CURAPP, September, 12<sup>th</sup> 2013.
- (with A. Abbott), “Sociologues et sociologie Français aux États-Unis”, invited keynote lecture at the “Les sociologues français de 1970 à nos jours” conference, convened by D. Demaziere and C. Paradeise, June 6<sup>th</sup> 2013.
- “Contemporary sociology in the USA. Common conceptions and alternative views of the discipline”, invited presentation in the “Distinguished Lecture Series”, Sciences-Po, February 6<sup>th</sup> 2013.

#### CONFERENCES (SELECTION)

- “How to (Quantitatively) Represent the Social World ?”, invited presentation, “Visualizing Theory” Panel, ASA Theory section, Seattle, August 2016.
- (with J. Boelaert and F. Tarissan), “de Gaulle’s Nightmare. A Network Based Approach to Party Discipline (and its decline)”, European Social Networks Conference, 15 juin 2016, Paris.
- (with J. Boelaert), “Are the old statistical methods doomed ? Geometric data analysis meets the machine learning revolution”, Representing the Social Space II conference, Bonn Univerité de Bonn, October 15<sup>th</sup> 2015 (org. J. Bläsius & A. Schmitz).
- (with A. Abbott), “America ! America ? The appropriations of French sociology in the USA”, American Sociological Association, Theory section, August 22<sup>nd</sup>, 2015.
- “Agents de la circulation. Les responsables du plaidoyer, médiateurs invisibles des relations internationales”, talk given at the conférence on “Des producteurs à la production symbolique” (A. Mariette, O. Roueff), Centre de Sociologie Urbaine, May 18<sup>th</sup> 2013.

## Service

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- Editorial board of *Actes de la Recherche en Sciences Sociales* (2016-), editor in charge of the non-thematic issues (2016-2021).
- Book review editor at *Sociologie du Travail* (2013-2015)
- Occasional manuscript referee for (since 2016): *American Journal of Sociology*, *Actes de la Recherche en Sciences Sociales*, *Bulletin de Methodologie Sociologique*, *Current Sociology*, *Ethnography*, *European Journal of Sociology*; *French Politics*; *La Découverte*, *Max Planck Institute for Social Sciences*. *Politix*, *Revue d'anthropologie des connaissances*, *Review of Political Economy*, *Science in Context*, *Socio-Economic Review*, *Qualitative Sociology*, *Quality & Quantity*, *Sociologie et Société*.

## Research dissemination

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- Media (selection)
  - “Un sociologue au Palais-Bourbon”, invited double page in *Le Monde*, July 5<sup>th</sup> 2017; “Député, ce dur métier pour les élites”, invited double page in *Le Monde*, May 18<sup>th</sup> 2018.
  - Interviews: *Le Monde*, *Alternatives économiques*, *France inter*, *France info*, *Europe 1*, *RTL*, *Radio classique*, *Le Parisien*, *Agence France Press*, *Hors-Série*, *Médiapart*, *Contexte*, *Le Monde des religions*, *La Croix*, ...
  - Work discussed (in France): *Libération*, *Le Figaro*, *Le Parisien*, *Les Inrockuptibles*, *Rue 89*, *Slate*, *France inter*, *France culture*, *L'Alsace*, *Les dernières nouvelles d'alsace*, *La Croix*...; (abroad): *The New York Times*, *The Washington Post*, *The Economist*, *The Financial Times*, *Tagesanzeiger*, *Basler Zeitung*, *Colombo Telegraph*, *China Politics*, *Daily Zhihu*, *El País*, *Wirtschaftswoche*...

## Other

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- Languages: French (native), English (read, spoken, written); Spanish (read), Swedish (read, spoken)
- Programming: Fluency in html, CSS, R. Knowledge in Python.
- Statistical software: R.
- R package : aweSOM (January 2021)

Last update: June 2021