

# Curriculum Vitae

## Sébastien Lérique

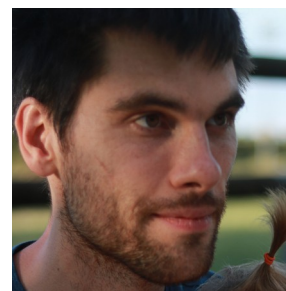
Born 20/12/1988 in Pau, France  
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## Experience

- November 2017 to now – post-doc researcher at IXXI, *Laboratoire d'Informatique du Parallélisme*, ENS Lyon, in Dr. Márton Karsai's team.

## Education

### *Diplomas*

- 2017 – PhD in Cognitive Science from EHESS. Title: “Epidemiology of representations: an empirical approach”. Supervision: Pr. Jean-Pierre Nadal and Pr. Camille Roth. Reviewers: Pr. Russell Gray and Pr. Fiona Jordan.
- 2013 – École Normale Supérieure de Paris (ENS) Diploma, majoring in Cognitive Science, minor in Physics
- 2012 – Masters *magna cum laude* in Cognitive Science from ENS (focused on mathematics and linguistics)
- 2009 – Graduated in Theoretical Physics at the ENS
- 2006 – French Baccalauréat, Scientific section, *magna cum laude*

### *Doctoral curriculum*

- September 2013 to October 2017 – PhD candidate in sociology and psycholinguistics at the *Centre d'Analyse et de Mathématique Sociales* (CAMS) at the *École des Hautes Études en Sciences Sociales* (EHESS), Paris, and at the *Centre Marc Bloch* (CMB), Berlin. Active part-taking to academic life at the CMB and to its doctoral workshop. Representative for the PhD candidates from October 2014 to October 2015.
- June 2015 – LOT Summer School in linguistics, Leuven, Belgium. Courses: *Usage-based linguistics*, *Word recognition*, *Question answering and questionnaire design*, and participation to Martin Hilpert's discussion group *Issues in language variation and change*.
- September 2014 to March 2015 – Research stay at the Faculty of Philosophy and Humanities (FFyH) of the *Universidad Nacional de Córdoba* (UNC), Argentina. Course in cognitive neuroscience.

### *Pre-doctoral curriculum*

- March to July 2013 – ENS 4<sup>th</sup> year – Internship at the French Consulate General in Jerusalem, working at the Cooperation and Cultural Service and the Diplomatic Chancery.
- September 2012 to February 2013 – ENS 4<sup>th</sup> year – Development of a software library for behavioural experiments on smartphones and tablets. Course in mathematics (algebraic topology).
- March to August 2012 – End-of-Masters internship at the *Centre d'Analyse et de Mathématique Sociales*, directed by Camille Roth; empirical study of cognitive bias when people copy quotations on blogs on the

Internet.

- 2011-2012 – ENS 3<sup>rd</sup> year – *Institut d'Étude de la Cognition*. Additional courses in linguistics (12 credits), theoretical neuroscience (6 credits), probabilistic graphical models (4 credits), reinforcement learning (4 credits), dynamical systems.
- 2010-2011 – Undergraduate Sociology and Anthropology at the *Universidad Nacional de San Martín* (UNSAM), Buenos Aires.
- 2009-2010 – ENS 2<sup>nd</sup> year – *Institut d'Étude de la Cognition*. Additional courses in Arabic (6 credits), sociology (3 credits), information theory, and statistics. Research internship linking cognition and sociology at the *Racing Métro 92* rugby club, directed by Florence Weber.
- 2008-2009 – ENS 1<sup>st</sup> year – Physics Department. Additional courses in cognitive science (3 credits), social anthropology (4 credits), Spanish (3 credits), Arabic (12 credits), geopolitics (2 credits), economy (3 credits), biology (3 credits).
- 2006-2008 – 2 years preparatory courses in mathematics and physics for competitive examinations for French engineering and research schools, *Lycée Pierre de Fermat* in Toulouse, France. Accepted at the *École Normale Supérieure de Paris* and the *École Polytechnique*.

## **Academic activities**

### *Research projects*

- Founding member of the [Science en Poche](#) project which develops research tools for mobile devices, funded by the *Émergence(s)* program of the city of Paris. Lead developer of the showcase Android application [Daydreaming](#), which studies mind-wandering through the use of smartphones.
- Member of the ANR project [Algopol](#), which studies the politics of ranking algorithms found in internet search engines.

### *Teaching*

- April to May 2019 – Assistant teacher in Optimisation at CPE Lyon
- November 2014 – Series of introductory workshops to programming and statistics using Python, at the *Universidad Nacional de Córdoba*, Argentina.
- April to May 2014 – Assistant teacher in the Master's course *Digitale Kulturen* at the *Humboldt-Universität zu Berlin*.

### *Grants and funding*

- 2013-2016 – *Allocation Spécifique Normalien*
- 2008-2010 and 2011-2013 – Intern-civil servant (*fonctionnaire-stagiaire*) of the ENS

## **Publications**

### *Peer-reviewed journals*

- **Sébastien Lerique** and Camille Roth (2018). The semantic drift of quotations in blogspace: a case study in short-term cultural evolution. *Cognitive Science*, 42: 188-219. [[pdf](#), [publisher](#)]
- Mikaël Bastian, **Sébastien Lerique**, Vincent Adam, Michael S. Franklin, Jonathan W. Schooler, and Jérôme Sackur (2017). Language facilitates introspection: verbal mind-wandering has privileged access to consciousness. *Consciousness and Cognition*, 49, 86-97. [[pdf](#), [publisher](#)]
- **Sébastien Lerique** (2016). Pour une étude de la dynamique du sens : Réflexions épistémologiques sur la mémétique et l'épidémiologie des représentations. *Travaux de linguistique*, 73(2), 45-68. [[pdf](#), [publisher](#)]

### *Communications*

- **Sébastien Lerique**, Jacobo Levy-Abitbol, Márton Karsai and Éric Fleury (2018). Joint graph-feature

embeddings using GCAEs. Graph Embedding Day, Lyon, September 2018.

- **Sébastien Lerique** and Camille Roth (2018). Descriptive modelling of utterance transformations in chains: short-term linguistic evolution in a large-scale online experiment. HBES 2018, Amsterdam, July 2018.
- **Sébastien Lerique**, Éric Fleury and Márton Karsai (2018). Linguistic and social network coevolution: joint analysis of heterogeneous sources of information in Twitter. NetSci 2018, Paris, June 2018.
- **Sébastien Lerique** and Camille Roth (2017). Lexical transformations in blogspace: a case study in short-term cultural evolution. Inaugural Cultural Evolution Society Conference, Max Planck Institute for the Science of Human History, Jena, September 2017.
- **Sébastien Lerique** and Camille Roth (2016). Cultural attractors by iterated sentence reformulation: elements of the cognitive story in complex contagion. Data Driven Approach to Networks and Language, ENS Lyon, May 2016.
- **Sébastien Lerique** (2015). Pour une étude du contexte d'interprétation. Les Mêmes Langagiers workshop, Université Paris-Sorbonne, December 2015.
- **Sébastien Lerique** and Camille Roth (2015). Empirical Attractors in Sentence Reformulation Processes. Conference on Complex Systems 2015, Arizona State University, September 2015.
- **Sébastien Lerique** (2014). Cultural Epidemiology. A quest for ontologies where the social and cognitive sciences can meet. Journée scientifique des doctorants de 1<sup>ère</sup> année de l'ED3C, Paris, March 2014.
- Vincent Adam, **Sébastien Lerique**, and David Chavalarias (2014). Pocket Science. Easing development of political, scientific, and citizen apps. 3rd Citizen Cyberscience Summit, University College London, February 2014.
- Vincent Adam, **Sébastien Lerique**, Florence Ruby, Haakon Engen, Gislain Delaire, Tal Yarkoni, and Jonathan Smallwood (2013). Daydreaming: Exploring mind-wandering with smartphones. Brainhack 2013, Paris, October 2013.

## Languages

- **French** and **English** native
- **Spanish** fluent
- **German** intermediary
- **Portuguese, Arabic** beginner-intermediary
- French Sign Language beginner