

# Clément Elvira

Ph.D student

École Centrale de Lille  
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French, 26 years old

## Research experience

- 2014 – present **research assistant**, (*Ph.D. student*).  
CRISAL, Centrale Lille, France.
- May - Sep. 2014 **research assistant**, (*intern*).  
Computer science department, TU Darmstadt, Germany  
Software development for automatic text summarization.
- May - Aug. 2013 **research assistant**, (*intern*).  
Schlumberger, R&D department, Montpellier, France  
Prototyping and development of a new module for the geophysical software Techlog.

## Education

- 2014 – present **Ph.D. in Signal Processing**, École Centrale de Lille, France.  
Bayesian methods for dimension exploration.  
Advisors : Pierre Chainais ([pierre.chainais@centralelille.fr](mailto:pierre.chainais@centralelille.fr))  
Nicolas Dobigeon ([nicolas.dobigeon@enseeiht.fr](mailto:nicolas.dobigeon@enseeiht.fr))
- 2014 **Master of Science (M.Sc.) in applied mathematics**, (*Master recherche de mathématiques appliquées*).  
Department of Mathematics, University of Lille 1  
Dual degree partnership in conjunction with studies at Ecole Centrale de Lille.
- 2011-2014 **Master of Science (M.Sc.)**, (*Diplôme d'ingénieur*).  
École Centrale de Lille  
Studying mathematics, mechanic, electronic and economic sciences during the two first years.  
specialization in data analysis during third year.
- 2009-2011 **Post-Secondary Preparatory Classes**, (*CPGE*).  
Lycée Jacques Amyot, Melun, France.

## Teaching experience

- 2015-2017 **Teaching Assistant**, École Centrale de Lille, France.  
64 hours per year
- measure theory, probability (30h)
  - signal processing (34h)

## Grants and awards

- 2017 **Finalist**, Student Paper Contest, IEEE'ICASSP 2017.  
2016 **Recipient**, Centrale initiative foundation travel grant.

## Miscellaneous

- 2017 **Supervision**, École Centrale de Lille (France), 70%  
I have co-supervised Mostafa Bouziane's first master internship with Pierre Chainais, on *Bayesian non parametric method with the micro-clustering property*.

## Publications

### ▷ Published/in press:

1. Clément Elvira, Pierre Chainais, Nicolas Dobigeon, Bayesian anti-sparse coding, IEEE Transactions on Signal Processing  
DOI: 10.1109/TSP.2016.2645543

### ▷ In revision/under review/submitted/in preparation:

1. Clément Elvira, Pierre Chainais, Nicolas Dobigeon, Bayesian nonparametric modeling of subspace estimation (*in preparation*)

### ▷ International conference papers

1. Clément Elvira, Pierre Chainais, Nicolas Dobigeon, Bayesian nonparametric subspace estimation, IEEE'ICASSP 2017, *New Orleans*  
*DOI not available yet*
2. Clément Elvira, Pierre Chainais, Nicolas Dobigeon, Democratic prior for anti-sparse coding, IEEE'SSP 2016, *Palma de Mayorca*  
DOI: 10.1109/SSP.2016.7551813