

Alexandre Cornet

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RESEARCH

- Articles**
- Pollution diffusion in spatial growth model (Working Paper with C. Camacho).
 - Land use and the energy shift (Working Paper with C. Camacho).
 - Peak demand management : from back-up fossil fuel to stored renewable energy (Working Paper).
 - Convective regimes of a non uniform Joule-heated liquid, *Journal of Fluid Mechanics, Cambridge University Press*.
 - Mathematical modelling of cardiac pulse wave reflections due to arterial irregularities, *Mathematical Bioscience and Engineering, American Institute of Mathematical Sciences*.

- Conferences**
- *Community in Economics and Management of the Energy Shift (CEMES) Seminar*, Paris, France (2019)
 - *Workshop on climate change and macroeconomics CNRS-SSSA*, Paris, France (2018)
 - *Joint British Mathematics & Applied Mathematics Colloquium*, Cambridge, Royaume-Unis (2016)
 - *4th International Conference on Computational and Mathematical Biomedical Engineering*, Paris, France (2016)

TEACHING

- **TA Real Analysis** – L1 MIASHS (2017/2018 ; 2018/2019 ; 2019/2020) – Class of M. Christophe Prechac
- **TA Calculus** – L1 MIASHS (2019/2020) – Class of M. Mohammed Bachir
- **TA Growth theory** – L3 Economie (2017/2018 ; 2018/2019) – Class of Mme. Katheline Schubert
- **Jury member for Master's thesis** – M1 MAEFF (2017/2018)

PROFESSIONAL EXPERIENCES

- 09/19 – now • Seminar organiser – **Community in Economics and Management of the Energy Shift PhD Seminar**
- 01/17 – 08/17 • Research fellow – **Mines ParisTech**
- 03/16 – 09/16 • Research fellow – **CNRS**
- 09/15 – 01/16 • Technical advisor – **Assemblée nationale**
- 08/14 – 07/15 • Research fellow – **Imperial College London**

GRANTS

- PhD Grant (72000 €).
- Graduate Grant de l'École des Mines de Paris (3500 €).
- Graduate Grant for élèves normalien fonctionnaire-stagiaire (60000 €).

EDUCATION

- 2017 – now • PhD in Energy and Environmental Economics **Université Paris 1 Panthéon-Sorbonne**
- 2015 – 2017 • Master in Public Policy - Major : Economics and Public Policy **Institut d'études politiques de Paris**
- 2015 – 2017 • Engineering degree - Major : Public Affairs and Innovation **Ecole des Mines de Paris**
- 2012 – 2017 • Élève normalien (admitted in Physics major) **École normale supérieure Paris-Saclay**
- 2009 – 2012 • Classes Préparatoires aux Grandes Écoles – PCSI / PC* **Lycée Henri IV**

SKILLS

- Softwares**
- **Programming:** Stata, Matlab, Maple, Python, C++, LaTeX.
 - **Office :** Suite Office, Suite Adobe.

- Languages**
- **French:** mother tong.
 - **English:** fluent.
 - **Spanish:** intermediate level.