Nicolas OMONT

11, rue de Soissons
78800 Houilles
France

+33 6 11 12 49 49
nicolas@omont.net
http://nicolas.omont.net
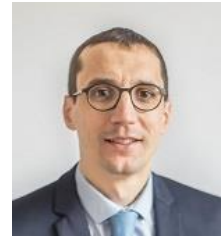
EXPERIENCE

- 2015-…: **R&D project leader**, *RTE (the French Transmission System Operator)*, Paris, France.
  - → *Perimeter: computations for the power grid safety from real time to D+1.*
  - → *Resources: around 10 full-time equivalents.*
  - → 5 European partners: conception and follow-up of technical programs, contract negotiation.
  - → Technological transfer: participation to innovation industrialization and to change management.
  - → Internal and external communication: organization of a 2-days yearly workshop for 50 persons.
  - → Development coordination of automata handling grid congestions with batteries (Ringo project).

- 2012-2015: **Power systems R&D engineer**, *RTE*, Paris, France.
  - → Development of computation modules for the automation of consumption forecasts.
  - → Design and implementation of an algorithm that decides the daily price of electricity for 400,000 customers.
  - → Realization of an adversarial statistical analysis on demand response base line estimation.

- 2006-2012: **Decision mathematics consultant and Ph.D. student**, *Artelys*, Paris, France.
  - → Task force leader of an expert group studying the impact on power market prices of a new methodology to compute cross-border capacity ("Flow-based") in central western Europe.
  - → Development of tools for and realization of economic studies on energetic systems.
  - → Development of statistical models for the telecom sector (traffic and call centers).
  - → Coordination of the support to the users of a mathematic optimization library.

- 2004-2005: **Ph.D. student**, *Serono Genetics Institute* and *University of Evry*, Paris, France.
- 2003-2004 (6 months): **Information system auditor / Intern,** *Ernst & Young*, Paris, France.
- 2002 (3 months): **Intern,** *Atesio* and *Z.I.B.*, Berlin, Germany.
- 2000 (9 months): **Army officer**, *French army*, Rouen, France. Paratrooper training.

EDUCATION

- 2008: Ph.D. in Computer Sciences, summa cum laude, *Université of Evry-Val d'Essonne*, France.
- 2004: M.Sc. in mathematics, *Ecole Polytechnique and Telecom ParisTech*, Paris, France.

SKILLS

- Computer tools:
  - → Matlab, R, SQL, AMPL, Java, Python.
  - → Linux (Administration), Office, Latex.

- Language:
  - → English   (fluent)
  - → French   (native speaker)
  - → German   (intermediate)
  - → Italian   (basic level)

TEACHING EXPERIENCE

- 2009-…: Power system economics (in English), *12 h*, M2 Energy, Ecole Polytechnique and PSL University.
- 2015-…: Definition and organization of an internal training on big data.