Paulin Jacquot, PhD

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Since January 2021, I started as research engineer at EDF Lab Saclay (OSIRIS department). In 2020 I was a Mitacs postdoctoral fellow researcher at the GERAD center and Polytechnique Montréal university. I defended my PhD at École polytechnique on Dec 5, 2019. My work focuses on distributed optimization and game theory algorithms, multi-agents systems, learning and applications to smart grid and the management of electric systems in general.

Work Experience

Jan. 2021- present	**_Research Engineer_, EDF Lab, Palaiseau, France** Started a research engineer position, working in the departement of _Optimization, Simulations, Risks and Statistics_ (OSIRIS), in the team focused on Energy markets and Risks.
Feb. 2020-Dec. 2020	**_Postdoctoral Researcher_, GERAD, Polytechnique Montréal, Montréal, Canada** Postdoctoral research position (_Mitacs_ fellowship), working on distributed and decentralized optimization methods and applications to electricity consumption flexibilities and network constraints, in partnership with Hydro-Québec research institute (IREQ).
Sep. 2016-Jan. 2020	**_PhD Researcher_, EDF R&D and École polytechnique, Paris, France** "_Game theory and optimization methods for decentralized electric systems_". Supervised by S. Gaubert (Inria, CMAP), N. Oudjane (EDF R&D) and O. Beaude (EDF R&D) Patent on a non-intrusive method to manage flexibilities. Several publications and communications.
Mar. 2016-Aug. 2016	**_Artelys_, Paris, France** Scientific consulting in optimization, specialized in energy. Worked on stochastic optimization projects, use of AMPL, Python, optimization solvers XPRESS and Knitro. Winner of nonlinear optimization challenge MINO using solver Knitro.
Mar. 2015-Aug. 2015	**_University of California_, Davis, United States** Multi-stage stochastic optimization for Unit Commmitment, supervised by Pr. David L. Woodruff and Pr. Roger J.B. Wets. Development of a new model, algorithm and scenarios for optimizing dispatch of electricity production. Use of Python, Pyomo, solver GUROBI.
Jul. 2014-Aug. 2014	**_Safran MBD_, Suzhou, China** Engineering internship on a green-belt project, standardizing production programs of some parts of landing gears of aircrafts.

Education

2016-2020	**_PhD in applied mathematics_, École polytechnique, Université Paris-Saclay, Paris, France** "_Game theory and optimization methods for decentralized electric systems_".
2015-2016	**_M.Sc. in Operations Research (MPRO). Université Paris-Saclay, CNAM_, Paris, France** Leading program in France in operations research and combinatorial optimization (mathematical programming, graph theory, complexity, heuristics).
2012-2016	**_Cycle ingénieur polytechnicien (M.Sc.). École polytechnique_, Paris, France** Graduate program in France's leading engineering school, majors in applied maths and computer science. Lead a language-processing student project in partnership with IBM.
2009-2012	**_CPGE. Lycée Henri Poincaré_, Nancy, France** Undergraduate program in advanced Mathematics and Physics to prepare the national competitive exams for the entrance in French _grandes écoles_.
2006-2009	**_Baccalauréat scientifique. Lycée Jules Ferry_, Saint-Dié, France** French secondary Diploma, awarded with very high honors.

Computer Skills

DEVELOPMENT: Python (expert), C++, JAVA and AMPL and GAMS experiences.
OPTIMIZATION TOOLS AND SOLVERS: CvxOpt, Pyomo, CPLEX, Gurobi, XPRESS, Knitro, Ipopt, Couenne.
OTHERS: GIT subversion control, Linux environment, HTML & CSS.

Languages

French (first language), English (fluent), Spanish (basic skills), German (basic skills), Chinese (basic skills).