

Quentin L  t  

  CORE B.105 - Louvain Institute of Data Analysis and Modeling - UCLouvain
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  <https://qlete.github.io>

CURRENT POSITION

Assitant Professor

Sep. 2024 - Present

Louvain Institute of Data Analysis and Modeling
UCLouvain, Louvain-la-Neuve, Belgium

ACADEMIC EXPERIENCE

Postdoctoral Researcher

Nov. 2022 - Aug. 2024

Power Systems Laboratory
ETH Z  rich, Z  rich, Switzerland

Research Intern

Aug. 2019 - Nov. 2019

Computational Engineering Division
Lawrence Livermore National Laboratory, Livermore, CA, USA

Visiting Student

July 2017 - Aug. 2017

Operations Research Center
Massachusetts Institute of Technology, Cambridge, MA, USA

EDUCATION

Ph.D. in Operations Research

Oct. 2022

Universit   catholique de Louvain, Louvain-la-Neuve, Belgium

Dissertation: Models and Algorithms for Quantifying and Mitigating the Inefficiency of Zonal Pricing: Short and Long-Term Measures

M.S. in Mathematical Engineering

June 2018

Universit   catholique de Louvain, Louvain-la-Neuve, Belgium

Thesis: Optimal planning of robust DSO grid

B.S. in Engineering Sciences

June 2016

Universit   catholique de Louvain, Louvain-la-Neuve, Belgium

RESEARCH INTERESTS

- Electricity Market Design
- Stochastic and Robust Optimisation
- Active Management of Distribution Grids
- Power Systems with High Penetration of Renewable Energy

GRANTS

FNRS Research Fellowship

Title: Models and Algorithms for the Active Management of the European Electricity Grid

SELECTED AWARDS & HONORS

Best Publication Award in Energy (runner-up)

2021

Section on Energy, Natural Resources, and the Environment, INFORMS

Outstanding Reviewer 2021
IEEE Transactions on Power Systems

Lhoist Berghmans Scholarship 2017
Merit-based scholarship for summer visit at MIT
Awarded by the International Lhoist Berghmans Innovation Chair

De Bremaecker-Stockhem Scholarship 2014
Merit-based scholarship for summer English programme
at the Horner School of English, Dublin

JOURNAL PUBLICATIONS

Peer-Review Journal Articles:

1. **Q. L    **, Y. Smeers, A. Papavasiliou, "An analysis of zonal electricity pricing from a long-term perspective", *Energy Economics*, 2022.
2. I. Aravena, **Q. L    **, A. Papavasiliou, Y. Smeers, "Transmission Capacity Allocation in Zonal Electricity Markets", *Operations Research*, 2021.
3. **Q. L    **, A. Papavasiliou, "Impacts of Transmission Switching in Zonal Electricity Markets - Part I", *IEEE Transactions on Power Systems*, 2021.
4. **Q. L    **, A. Papavasiliou, "Impacts of Transmission Switching in Zonal Electricity Markets - Part II", *IEEE Transactions on Power Systems*, 2021.

Working Papers:

1. **Q. L    **, Y. Smeers, A. Papavasiliou, "Power Generation Investment under Zonal Electricity Pricing with Market-Based Re-dispatch", 2024.

TEACHING EXPERIENCE

Teaching Assistant, ETH Z  rich

Optimization in Energy Systems (Graduate Level)	2023 - Present
Power Systems Seminar (Undergraduate Level)	2023 - Present
<i>Technical and Economic Aspects of Renewable Energy Supply</i>	
Theses Reviewer (All Levels)	2023 - Present
In charge of reviewing and grading all theses submitted in the lab.	

Teaching Assistant, Universit   catholique de Louvain

Quantitative Energy Economics (Graduate Level)	2019-2022
Project in Applied Mathematics (Undergraduate Level)	2021
Introduction to Economics (Undergraduate Level)	2019
Chemistry and Chemistry Physics I (Undergraduate Level)	2017

Instructor, Council of European Energy Regulators

Training on Electricity Market Design and Renewables	Sept. 2022
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**ACADEMIC
SERVICES**

Reviews of Journal Articles:

The Energy Journal ◦ Energy Economics ◦ IEEE Transactions on Power Systems
(Outstanding Reviewer 2021) ◦ IEEE Transactions on Smart Grid ◦ IEEE Transactions on Sustainable Energy ◦ IEEE Open Access Journal of Power and Energy
◦ IEEE Power Engineering Letters ◦ IEEE Transactions on Energy Markets, Policy and Regulation

Reviews of Conference Papers:

Power Systems Computation Conference ◦ IEEE PowerTech

**PROFESSIONAL
MEMBERSHIPS**

Member, Institute for Operations Research and the Management Sciences (INFORMS)
Member, International Association for Energy Economics (IAEE)
Member, Institute of Electrical and Electronics Engineers (IEEE)
Member, IEEE Power & Energy Society

SELECTED TALKS & POSTERS

1. Power Systems Seminar, *Optimal Fixed Charges for Future Electricity Tariffs* (Invited Seminar Talk), Ampère Laboratory, Lyon, October 26, 2023.
2. Workshop on Future Electricity Tariffs, *Optimal Fixed Charges for Future Electricity Tariffs*, Florence School of Regulation, June 21, 2023.
3. VAME Workshop, *Long-Run Equilibrium of Zonal Pricing Followed by Market-Based Re-dispatch*, Brescia, May 10, 2022.
4. ETH Power Systems Seminar, *Long-Run Equilibrium of Zonal Pricing Followed by Market-Based Re-dispatch* (Invited Seminar Talk), Zürich, April 7, 2022.
5. INFORMS Annual Meeting, *An analysis of zonal electricity pricing from a long-term perspective*, Online, October 26, 2021.
6. ESIM Seminar, *An analysis of zonal electricity markets from a long-term perspective* (Invited Seminar Talk), Leuven, October 11, 2021.
7. 31st European Conference on Operational Research, *An analysis of flow-based market coupling from a long-term perspective*, Athens, July 12, 2021.
8. VITO Lunch Talk, *Modeling framework and simulation results for flow-based market coupling with transmission switching and N-1 security* (Invited Seminar Talk), Online, November 6, 2020.
9. INFORMS Virtual Meeting, *Model and Algorithm for Flow-based Market Coupling with Transmission Switching and N-1 Security*, Online, November 13, 2020.
10. Georgia Tech Energy Systems and Optimization Workshop 2019, *Impacts of Transmission Switching on Zonal Markets* (Poster), Atlanta, November 14, 2019.
11. INFORMS Annual Meeting, *Impacts of Topology Control on Zonal Markets*, Seattle, October 23, 2019.
12. 30th European Conference on Operational Research, *Impact of topology control on zonal electricity market operations*, Dublin, June 25, 2019.
13. Market Design 2030 Expert Workshop, *Models of congestion management in zonal markets*, ENTSO-E, Brussels, February 27, 2019.

Languages

- French (Native Speaker)
- English (C1, Professional and Fluent)
- Dutch (B1)
- German (B1)