

# Quentin Lété

📍 ETL G22 - Power Systems Laboratory - ETH Zürich  
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**CURRENT POSITION** *Postdoctoral Researcher* Nov. 2022 - Present  
Power Systems Laboratory  
**ETH Zürich**, Zürich, Switzerland

**ACADEMIC EXPERIENCE** *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  
**Université 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  
**Université catholique de Louvain**, Louvain-la-Neuve, Belgium  
*Thesis: Optimal planning of robust DSO grid*

B.S. in Engineering Sciences June 2016  
**Université 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. Lété**, Y. Smeers, A. Papavasiliou, “An analysis of zonal electricity pricing from a long-term perspective”, *Energy Economics*, 2022.
2. I. Aravena, **Q. Lété**, A. Papavasiliou, Y. Smeers, “Transmission Capacity Allocation in Zonal Electricity Markets”, *Operations Research*, 2021.
3. **Q. Lété**, A. Papavasiliou, “Impacts of Transmission Switching in Zonal Electricity Markets - Part I”, *IEEE Transactions on Power Systems*, 2021.
4. **Q. Lété**, A. Papavasiliou, “Impacts of Transmission Switching in Zonal Electricity Markets - Part II”, *IEEE Transactions on Power Systems*, 2021.

**Working Papers:**

1. **Q. Lété**, Y. Smeers, A. Papavasiliou, “Power Generation Investment under Zonal Electricity Pricing with Market-Based Re-dispatch”, 2024.
2. **Q. Lété**, G. Hug, “Optimal Fixed Charges for Future Electricity Tariffs”, 2024.

**TEACHING  
EXPERIENCE**

**Teaching Assistant, ETH Zürich**

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

**Teaching Assistant, Université 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

## ADVISING & MENTORING

### ETH Z  rich Graduate Students:

**Elea Seidmann**, Semester Thesis Supervisor March 2024 - present  
*Topic: Bilevel Optimization for Time-Variable Electricity Tariffs*

**Davide Berti**, Semester Thesis Supervisor March 2024 - present  
*Topic: Flexibility Activation in Distribution Grids*

**Joel H  bscher**, Master Thesis Supervisor June 2023 - Jan. 2024  
in collaboration with Envision Digital, France  
*Topic: Trading Benchmarking of Utility Scale BESS in the UK Market*

**Hongtao Kan**, Semester Thesis Supervisor Sept. 2023 - Jan. 2024  
*Topic: Optimal Power Flow Representations for Electricity Pricing in the Distribution Grid*

**Charl  ly Locci**, Semester Thesis Supervisor Feb. 2023 - June 2023  
*Topic: Locational Pricing for Distributed Energy Resources Investment in the Distribution Grid*

### ETH Z  rich Undergraduate Students:

**Leon Keller**, Bachelor Thesis Supervisor Sept. 2023 - Jan. 2024  
*Topic: Impact of real-time locational pricing on DER deployment*

**Matthias Friederici**, P&S Course Advisor Fall 2023  
*Topic: Achieving a 100% Renewable Grid*

## 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)