IACOPO SAVELLI

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EDUCATION

- **University of Siena** – Dept. of Information Engineering and Mathematics — 11/2015 – 02/2019

  Ph.D. in Engineering and Information Science — Siena, IT

  Fields of interest:
  - **Electricity markets**
    European electricity market, PUN, block orders, complex orders.
  - **Power system economics**
    Energy pricing.
  - **Smart Grid**
    Local market models for community microgrid.
  - **Energy economics**
    Policy and regulations.

- **Baruch College** – New York – Exchange student – GPA 4.0 — 02/2014 – 06/2014

  Master in Financial Engineering — New York, NY

  COURSES:
  - Risk Management – Grade: A
  - Elements of Structured Finance – Grade: A
  - Independent Study on Credit Risk modelling – Grade: A

  Master in Business Administration

  COURSES:
  - Business Modelling with Spreadsheets – Grade: A

- **University of Siena** — 11/2011 – 09/2014

  Master in Finance – Grade: 110/110 cum laude — Siena, IT

  RELEVANT COURSES:
  - Econometrics
  - Financial Modelling I, II
  - Financial Engineering
  - Fundamentals of Programming
  - Active Portfolio Management
  - Monetary Economics
  - Corporate Valuation

  Thesis: *"A Credit Model with Contagion Effect using Hawkes Process."*

- **University of Macerata** — 09/2008 – 11/2011

  Bachelor in Economics – Grade: 110/110 cum laude — Macerata, IT

PUBLICATIONS

- Journal papers
  1. Iacopo Savelli, Antonio Giannitrapani, Simone Paoletti, Antonio Vicino, "*An Optimization Model for the Electricity Market Clearing Problem with Uniform Purchase Price and Zonal Selling Prices*", in *IEEE Transaction on Power System*, Vol. 33, no. 3, pp. 2864 - 2873, 2018.
  2. Iacopo Savelli, Bertrand Cornélusse, Antonio Giannitrapani, Simone Paoletti, Antonio Vicino, "*A New Approach for Solving the Market Clearing Problem With Uniform Purchase Price and Curtailable Block Orders*", in *Applied Energy*, Vol. 226, pp. 618 - 630, 2018.
  3. Bertrand Cornélusse, Iacopo Savelli, Antonio Giannitrapani, Simone Paoletti, Antonio Vicino, "*A Community Microgrid Architecture with an Internal Local Market*", in *Applied Energy* (accepted), arxiv.org/abs/1810.09803

- Conference Proceedings
  4. Iacopo Savelli, Antonio Giannitrapani, Simone Paoletti, Antonio Vicino, "*An Exact Solution to the Market Clearing Problem with Uniform Purchase Price*", in *Proceedings of IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe)*, Torino, 2017, pp 1-6.
  5. Iacopo Savelli, Bertrand Cornélusse, Antonio Giannitrapani, Simone Paoletti, Antonio Vicino, "*Introducing Block Orders in the Italian Day-Ahead Electricity Market*", in *Proceedings of the 15th International Conference on the European Energy Market (EEM)*, Lodz, Poland, 2018, pp. 1-6.
  6. Laurine Duchesne, Iacopo Savelli, Bertrand Cornélusse, "*Sensitivity Analysis of a Local Market Model for Community Microgrids*", in *13th IEEE PES PowerTech Conference* (accepted).

- Book chapters
  - Iacopo Savelli, "*Market microstructure, VPIN and market maker's behavior*", pp. 41-76, in *Polymorphic Crisis*, ISBN 978-88-6056-410-8, 12/2014.

- Seminars
  - "*How the European day-ahead electricity market works*", University of Liege, Belgium, December 18th, 2017.

TEACHING

- Lecturer in "*Energy Market*" — 2018/2019

  in the course of Electric System and Energy Market, 3 credits, University of Siena. — Siena, IT

  Contents
  - Introduction to the economic theory that regulates the market equilibrium. Concepts of demand, supply, surplus, social welfare and elasticity. Perfect and imperfect competition and main tools to determine the presence of market power.
  - Differences between spot and forward markets. Instruments for managing the price risk (futures, options, contracts for difference, and financial transmission rights).
  - Bilateral trading, pool trading, pay-as-bid, uniform pricing. Reserve market. Auction and continuous trading. Types of European market orders.
  - Pricing frameworks for both zonal pricing and nodal pricing.

- Teaching assistant — 2016 – 2018

  for the course of "Models for Financial Applications", 20 hours/year, University of Siena. — Siena, IT

  Main duties
  - time series analysis and class exercises with ARIMA and ARCH/GARCH models.

WORK EXPERIENCE

- Monte Paschi Bank — 05/2013 – 10/2013

  Internship - Interest rate trading desk — Siena, IT
  - Operated and managed the internal secondary market for bonds issued in asset swap.
  - Performed all the calculations and executed the buybacks on weekly basis of the acquired bonds, according to the repurchase agreements with the original issuers.
  - Closing of the corresponding hedging positions.
  - Priced derivatives on interest rate as Cap, Floor, Swaptions both European and Bermudan and its exotic combinations using the Murex software.

- Financial Advisor/Insurer — 2004 – 2008

  Self-employed/partnership with other financial agents — Montalcino, IT
  - Planned and ongoing management of client's portfolios; building of personalized report for high net worth investors.

- Chairman of municipal tourist board — 2002 – 2003 — Pescina, IT
  - Ran an association composed by more than twenty people to promote, sustain and create activities to improve my native town through cultural and social initiatives.

SKILLS

Computer skills: Python, Pyomo, Cplex, GAMS, GitHub, MATLAB, VBA, SQL
Mother Tongue: Italian English Level: B2 TOEFL: 102
GRE Quant: 168/170