



EERIKA JANHUNEN

PhD Student Real Estate Economics
Aalto University

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I'm a smart building enthusiast with two years of relevant experience in academia. I'm skilled in technical building smartness evaluations (energy perspective) and economic investment profitability analysis. I'm interested in the sustainability approach of (energy) smartness and particularly excited about the 'smart neighborhood' theme. In my research, I'm eager to find out how to create financial value from the interactions between the energy system, smart buildings, and users. My personal motivation, through my research, is to be able to support the transformation of the built environment towards a smart and sustainable future. I enjoy working in an international environment, as a part of a team.

EDUCATION

Aalto University School of Engineering

- (2022) ● **PhD Real Estate Economics**
Dissertation (working) title: *The financial potential of a decarbonized smart energy system – The real estate market perspective*
Supervisor: Prof. Seppo Junnila
- 2018 ● **MSc Mechanical Engineering**
Thesis title: *Real estate and construction sector investment logic on smart buildings*
Major: Product Development and Design
- 2016 ● **Exchange studies, Danmarks Tekniske Universitet**
Master's level, Studies in Design and Innovation and Engineering Management

RESEARCH EXPERIENCE

Department of Built Environment, Aalto University

- 2019 – (2022) ● **Doctoral Candidate**
I study the value creation of digitalization from the real estate market point of view. I aim to identify and validate the profitability of digitalized building technologies and services and adapt the real estate investment logic to building smartness. In my research, I apply an EU-driven smart readiness indicator (SRI) to evaluate the building's technical level of smartness.
- 2018 – 2019 ● **Project Worker/Research Assistant**
The position was a continuum for my master's thesis. In my research, I studied the applicability of the SRI framework for cold climate countries. The research results were published in an academic journal: *Buildings* 2019, 9(4), 102.
- 2018 ● **Master's Thesis Worker**
I observed the added investment value of smart buildings as well as identified the investment drivers, which increase the property value therein. In addition, I introduced the SRI rating system as a way to evaluate building smartness. The grade from the thesis was 5/5.

LANGUAGE SKILLS

FINNISH (NATIVE)



ENGLISH



SWEDISH



GERMAN



TECHNICAL SKILLS

SAP ERP



PTC CREO PROE



PYTHON



SRI FRAMEWORK



PERSONAL SKILLS

SYSTEMATIC WORK ETHIC



SELF MANAGEMENT



TEAMWORK



HUMANE APPROACH



FIELD EXPERTISE

SMARTNESS EVALUATIONS



ICT IN REAL ESTATE



SMART TECH. FINANCE



ENERGY SYSTEM TRANS.



PUBLICATIONS

- 2020 ● Janhunen E., Leskinen N. & Junnila S. *The economic viability of a progressive smart building system with power storage*, Sustainability 12(15), 5998.
- 2019 ● Janhunen E., Pulkka L., Säynäjoki A. & Junnila S. *Applicability of the smart readiness indicator for cold climate countries*, Buildings 9(4), 102.
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CONFERENCE PRESENTATIONS

- (2020) ● Janhunen E. *The untapped investment value of smart energy buildings*, Sustainability Science Days, Helsinki (cancelled due to COVID-19).
- 2019 ● Janhunen E. & Junnila S. *The logic of implementing exemplary smart energy systems to a building*, SDEWES, Dubrovnik (full paper).
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RESEARCH RELATED STUDIES

Aalto University

- 2020 ● Real Estate Finance (Grade: 5/5)
- 2019 ● Property and Facility Management (5/5), Real Estate Economics (4/5), Human Potential (4/5), Strategic Management in Construction (4/5)
- 2017 ● Product Development Project (5/5), System Engineering Design (5/5), Machine Design Project (5/5)
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OTHER RESEARCH ACTIVITIES

- 2020 ● **Assistant teacher, Aalto University;** Real estate business and entrepreneurship -course (Master's level). I provided support for the students in their project work and shared insights from the smartness-theme.
- 2019 ● **Mentor, Tallinn University;** Sustainable cities in the Nordic-Baltic region –course (Master's level). My responsibility was to provide support for the students in their project work.
- 2019 – (2020) ● **Member, stakeholder group EU DG Energy, Brussels**
Commenting and providing support for the development work of the SRI for buildings.
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HONORS AND AWARDS

- 2020 ● **€ 30,000** Research visit grant, Tutkijat maailmalle; KAUTE foundation
- **€ 2,000** Research grant for doctoral studies, Finsif Ry
- 2019 ● **€ 2,000** The best master's thesis of the year -reward, Rapal Oy
- **€ 300** Honorable mention for the master's thesis, Newesec student award
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PREVIOUS WORK EXPERIENCE

- 2016 – 2017 ● **Grohe A/S Finland**
Project coordinator, B2B
- 2015 – 2016 ● **Borealis Polymers Oy**
Trainee, development of internal training systems
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HOBBIES

HORSE SHOWJUMPING ● HIKING ● YOGA ● DOG AGILITY ● READING

REFERENCES

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