Thomas K. Kloster

PhD fellow - Quantitative Finance
Department of Economics and Business Economics, Aarhus University
Building 2631 - Office 114, Fuglesangs Allé 4, 8210 Aarhus V
tkk@econ.au.dk | tkkloster

Education

Ph.D. in quantitative finance *Aarhus, Denmark*
Department of Economics and Business Economics, Aarhus University *Sept. 2022 - Aug. 2025*
- Supervisors: Elisa Nicolato & Thomas Kokholm.

M.Sc. in mathematics-economics *Aarhus, Denmark*
Department of Mathematics, Aarhus University *Sept. 2020 - Jun. 2022*
- Specializing in mathematical finance.
- Thesis: A joint Venture: Pricing SPX and VIX options under various jump distributions.

B.Sc. in mathematics-economics *Aarhus, Denmark*
Department of Mathematics, Aarhus University *Sept. 2017 - Jun. 2020*
- Thesis: Modelling and implementation of intensity based models of credit risk.

Work Experience

Research Assistant *Aarhus, Denmark*
Department of Economics and Business Economics, Aarhus University *Sept. 2018 - Jan. 2022*
- Research assistant for professor of economics and finance Bent Jesper Christensen.

Teaching Assistant *Aarhus, Denmark*
Department of Mathematics, Aarhus University *Sept. 2020 - Jun. 2022*
- Advanced probability theory
- Investment and finance
- Microeconomics 1

Research

Orthogonal expansions in Volterra-Heston models *Working paper*
Joint with Elisa Nicolato

An orthogonal expansions approach to joint SPX and VIX calibration in the SVJJ model *Working paper*
Joint with Elisa Nicolato

Extracurricular Activity

Student representative in the education committee *Aarhus, Denmark*
Department of Mathematics, Aarhus University *Nov. 2019 - Nov. 2021*
- Representing mathematics-economics.

Student representative in the programme committee *Aarhus, Denmark*
Department of Mathematics, Aarhus University *Nov. 2020 - Nov. 2021*
- Representing mathematics-economics.

Selected Presentations

12th Bachelier World Congress 2024 *Rio de Janeiro, Brazil*
Presentation (25 min) *Jul. 2024*
- Presenting the working paper 'Orthogonal expansions in the Volterra-Heston model'.

XXV Quantitative Finance Workshop *Bologna, Italy*
Short talk (15 min) *Apr. 2024*
- Presenting the working paper 'Orthogonal expansions in the Volterra-Heston model'.

XXIV Quantitative Finance Workshop *Gaeta, Italy*

SHORT TALK (15 MIN) *Apr. 2023*

- Presented the working paper 'An orthogonal expansions approach to joint SPX and VIX calibration in the SVJJ model'.

Stochastics seminar, Department of Mathematics *Aarhus*

SEMINAR PRESENTATION *May 2023*

- Presented the working paper 'An orthogonal expansions approach to joint SPX and VIX calibration in the SVJJ model'.