

# Thomas van der Zwaard

LinkedIn: <https://www.linkedin.com/in/thomasvdzwaard>

Email: [t.vanderzwaard@uu.nl](mailto:t.vanderzwaard@uu.nl)

Homepage: <https://thomasvdzwaard.github.io/>

## EDUCATION

- Delft University of Technology** Delft, the Netherlands  
*Master of Science - Applied Mathematics; GPA: 8.5 (cum laude)*  
*Specialization: Financial Engineering*  
September 2014 - August 2016
- Delft University of Technology** Delft, the Netherlands  
*Bachelor of Science - Applied Mathematics; GPA: 7.0*  
September 2011 - August 2014

## EXPERIENCE

- Rabobank** Utrecht, the Netherlands  
*Senior model validator*  
October 2016 - present
  - Department:** Risk Management, Pricing Model Validation team.
  - Goal:** Validate models used for pricing and risk-management of financial derivatives.
  - Asset classes:** Interest rate, foreign exchange, credit, inflation, bond, commodity, hybrid.
- Utrecht University & Delft University of Technology** Utrecht/Delft, the Netherlands  
*PhD candidate*  
September 2018 - May 2024
  - Promotor:** Prof. dr. ir. C.W. Oosterlee.
  - Copromotor:** Dr. ir. L.A. Grzelak.
  - Research topic:** Enhanced Modelling of Valuation Adjustments for Comprehensive Financial Risk Management.

## PUBLICATIONS

- “Enhanced Modelling of Valuation Adjustments for Comprehensive Financial Risk Management”:** T. van der Zwaard, PhD thesis, November 2024.
- “On the Hull-White model with volatility smile for Valuation Adjustments”:** T. van der Zwaard, L.A. Grzelak, C.W. Oosterlee, submitted, pre-print on arXiv, March 2024.
- “Efficient Wrong-Way Risk Modelling for Funding Valuation Adjustments”:** T. van der Zwaard, L.A. Grzelak, C.W. Oosterlee, International Journal of Theoretical and Applied Finance, 27(2), July 2024.
- “Relevance of Wrong-Way Risk in Funding Valuation Adjustments”:** T. van der Zwaard, L.A. Grzelak, C.W. Oosterlee, Finance Research Letters, 49, October 2022.
- “A computational approach to hedging Credit Valuation Adjustment in a jump-diffusion setting”:** T. van der Zwaard, L.A. Grzelak, C.W. Oosterlee, Applied Mathematics and Computation, 391, February 2021.

## SKILLS SUMMARY

- Languages:** English (excellent), Dutch (native)
- Programming:** C#, Python, SQL, MATLAB, R
- Tools:** LaTeX, Git, Azure DevOps

## VOLUNTEER EXPERIENCE

- c.k.v. VZOD** Kudelstaart, the Netherlands  
*Various roles, e.g.:*
  - Treasurer in the board.:** May 2021 - present.
  - Coordinator of volunteers.:** June 2015 - July 2018.
- D.S.K.V. Paal Centraal** Delft, the Netherlands  
*Various roles, e.g.:*
  - Treasurer and vice-president in the board:** September 2013 - August 2014.
  - Member of the advisory committee to the board.:** September 2016 - February 2018.
  - Member of the financial committee.:** 2012/2013, 2014/2015, 2016/2017.
- Stichting De Binding** Aalsmeer, the Netherlands  
*Preparation and support of youth summer camps with around 40 participants.*  
April 2013 - August 2021.