

# Hidde Fokkema

## Curriculum Vitae

### CONTACT DETAILS

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*Address* Science Park 107, Amsterdam  
*Office* F3.27  
*Postal* Postbus 94248, 1090 GE Amsterdam  
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### EDUCATION

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#### PhD

2021/09-

*University of Amsterdam*

Mathematical Machine learning, *Formalising Explainable AI*.

Supervisor: dr. Tim van Erven

#### MSc. Mathematics

2019/09-2021/08

*University of Amsterdam*

Masters degree Mathematics. GPA: 8.9. (*Cum Laude*)

Title thesis: *Martingale optimal transport: properties and computational methods*.

Supervision: prof. dr. Peter Spreij, dr. Sonja Cox.

#### BSc. Mathematics

2015/09-2019/08

*University of Amsterdam*

Bachelor degree Mathematics with a minor in Artificial Intelligence, GPA: 8.1.

Title thesis: *Learning and thermodynamics*.

Supervision: dr. Bas Kleijn, dr. Greg Stephens.

#### BSc. Physics and Astronomy

2015/09-2019/08

*University of Amsterdam*

Bachelor degree Physics and Astronomy, GPA: 8.1.

Title thesis: *Learning and thermodynamics*

Supervision: dr. Bas Kleijn, dr. Greg Stephens.

### WORK EXPERIENCE

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#### Junior quantitative consultant

2018/03-2021/06

*Amsterdam Data Collective (ADC)*

*ADC is a quantitative management consultancy firm using cutting edge data analysis to offer their clients useful insights into their data and help them make more data-driven decisions.*

#### Teaching assistant

2018/05-2018/07

*University of Amsterdam*

#### Assistant Teacher

2016/01 - 2017/03

*Stichting Studiebegeleiding Leiden*

#### International volunteer

2014/09-2019/03

*European Youth Parliament*

*The European youth Parliament is an international network active in over 40 countries in Europe. Its goal is to provide young people an interactive educational platform. The events that are organised offer participants the opportunity to express their opinions and ideas about a wide range of topics.*

## PUBLICATIONS

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### Published

- H. Fokkema, R. de Heide, T. van Erven, Attribution-based Explanations that Provide Recourse Cannot be Robust, *Journal of Machine Learning Research*, vol. 24, no. 360, pp. 1-37, 2023.
- H. Fokkema, D. Garreau, T. van Erven, The Risks of Recourse in Binary Classification, *International Conference on AI & Statistics*, To appear, 2024.

## TALKS

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- Stochastics Seminar KdVi, A new Algorithm for Convex Bandit Optimization, March 2024
- Ministry of Justice and Security, Some Theoretical Limitations of Explainability Methods, March 2024
- Saarland University Workshop on Interpretability and Recourse, The Risks of Recourse in Binary Classification, October 2023;
- Amsterdam Business School, The Risks of Recourse in Binary Classification, September 2023;
- Xomnia Data Seminar, Some Theoretical Limitations of Explainability Methods, September 2023;
- 1st Nice workshop on Interpretability, Attribution-based Explanations that Provide Recourse Cannot be Robust, November 2022;
- Statistics Seminar KdVi, Attribution-based Explanations that Provide Recourse Cannot be Robust, November 2022;
- CWI Machine Learning Seminar, Attribution-based Explanations that Provide Recourse Cannot be Robust, July 2022;
- 1st Workshop Mathematics & Artificial Intelligence, CWI, poster presentation, June 2022;
- CWI Machine Learning Seminar, Optimal Transport and its Applications, January 2022;

## SKILLS

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<i>Languages</i>	Dutch (native)
	Engels (fluent)
	German (basic)
	French (basic)
<i>Software</i>	PYTHON, L <sup>A</sup> T <sub>E</sub> X, Mathematica, TYPESCRIPT, D3.js, SQL, MATLAB, R, HTML

## HOBBIES

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<i>Music</i>	Guitar (acoustic/electric)
	Piano
	(Modular) synthesizer
<i>Sport</i>	Hockey, Fitness