



# Gerrit-Jan de Bruin

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## Work experience

2017–today *PhD-candidate at Leiden University and Ministry Infrastructure and Waterstate*

My research focus is on data and network science in the governmental domain. Position funded by Ministry of Infrastructure and Water Management.

Assisting in the courses Programming Methods and Data Science and Process Modelling.

2015–2019 *Volunteer at christian church 'De Wegwijzer Almere'*

Managed with others all ICT business including installing of cash decks, live streaming, website and communication system for more than 100 people.

2014–today *System administrator at management consultancy "Van der Meer & Van Tilburg"*

Responsible for buying and maintaining all necessary cloud, hardware and software solutions.

2012–2014 *Student Assistant at Utrecht University*

Tasks:

- Helping at Open Days and "Meet the Bachelor"
- Designing chemistry tests and make them available in DSO (Digital Chemistry Environment)

## Skills

*Full Stack Data Scientist*

- Machine learning in Python
- Deep Learning in Tensorflow
- Extensive experience in C#, C++, R, SAS and Unix

*Full Stack Web Developer*

- HTML, CSS, XML, JS, jQuery, PHP, SQL

*Other*

- Mathematica, Matlab,  $\LaTeX$ 2 $\epsilon$ , Microsoft Office 365, PowerShell

Languages *Dutch and English (Anglia Certificate Of English — Advanced level with Merit Grade)*

Driving *Driver license (obtained in 2013)*

Coaching *Certificate for "Korfbaltrainer 2" from the KNKV*

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\*31-10-1993, Amersfoort

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## Publications

- 2019 de Bruin, G. J. et al. Understanding Dynamics of Truck Co-Driving Networks. In Complex Networks and Their Applications VIII. COMPLEX NETWORKS 2019. Studies in Computational Intelligence, vol 882. Springer, Cham
- 2019 de Bruin, G. J. et al. Understanding Truck Co-Driving Behaviour using Network Analysis. IC2S2 2019.
- 2018 de Bruin, G. J. et al. Understanding Behavioral Patterns in Truck Co-Driving Networks. Complex Networks and Their Applications VII. COMPLEX NETWORKS 2018. Springer, Cham
- 2018 Barata, A. P., de Bruin, G. J. et al. Finding Anomalies in Waste Transportation Data with Supervised Category Models. BeNeLearn 2018.
- Reviewed conference papers for MISDOOM 2019 (2), MAISO N 2019 (2) 2020 (1), Complex Networks 2019 (1), Intelligent Data Analysis 2020 (1) and European Conference on Artificial Intelligence 2020 (2).

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## Education

- 2017–today **PhD-candidate**, *Leiden University*, Leiden Institute of Advanced Computer Science.
- 2015–2017 **Master**, *University of Amsterdam & Free University Amsterdam*, *Analytical Chemistry* .
- Internship at: Inspectie Leefomgeving & Transport  
Title of thesis: *Efficient compliancy monitoring: Comparison of both airborne and landside sniffing and spectrometric methods to provide direct control on the sulfur emissions of ships.*
- Internship at: TNO  
Title of thesis: *Possibilities for breath examination in the detection of an in-body explosive*
- Subjects of Choice: Machine Learning 1 (6 EC), Mathematica for Physicists (3 EC), Advanced Separation Sciences (6 EC), Advanced Statistics (6 EC), Chemical Analysis for Forensic Evidence (6 EC), The Analytical Chemist in Industry (6 EC) and Environmental Chemistry (6 EC)
- Compulsory courses: Fundamentals of Analytical Science (6 EC), Mass Spectrometry (6 EC), Separation Sciences (6 EC) and Biomolecular Spectroscopy (6 EC)
- 2012–2015 **Bachelor**, *Universiteit Utrecht*, *Chemistry* .
- Internships at: Van Wijhe Verf and “Condensed Matter and Interfaces”  
Title of thesis: *Nano-thermometry using Lanthanum Phosphates*
- 2006–2012 **Gymnasium**, *Van Lodenstein College*, Amersfoort, *TTO (Bilingual education)*.  
Nature & Technique profile

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## Sports and interests

- 2016–2019 Organizing “JIFE”: a sport community for youth in Almere Haven
- 2015–2019 Responsible for ICT and multimedia within local church “De Wegwijzer”
- 2003–2016 Player, Trainer, Coach and Referee at c.k.v. MIA (korfbal)
- 2013–2014 Organizing Chemistry Sessions for primary school “De Wartburg”, Woudenberg
- 2011–2012 Organizing Korfbal Sessions for primary schools

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