

Curriculum Vitae – Wouter Duivesteijn



Date of birth December 09, 1984
Place of birth Rotterdam, the Netherlands
Nationality Dutch
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Academic career

September 2016 Assistant Professor Data Mining at Technische Universiteit Eindhoven (the Netherlands).
now

October 2015 Postdoctoraal Bursaal at Universiteit Gent (Belgium), working on the FORSIED project:
August 2016 FORmalising Subjective Interestingness in Exploratory Data mining.

August 2015 Honorary Research Associate at University of Bristol (UK), working on the FORSIED
September 2015 project: FORmalising Subjective Interestingness in Exploratory Data mining.

August 2013 Wissenschaftlicher Mitarbeiter at Technische Universität Dortmund (Germany), in
July 2015 Sonderforschungsbereich 876: Verfügbarkeit von Information durch Analyse unter Ressourcenbeschränkung (Collaborative Research Center SFB 876: Providing Information by Resource-Constrained Data Analysis).

July 2009 PhD candidate in the Algorithms group at Leiden Institute of Advanced Computer
July 2013 Science, Universiteit Leiden (the Netherlands), under the supervision of Joost N. Kok and Arno Knobbe (graduation date: September 17, 2013).

Education

2019 University Teaching Qualification (UTQ), Technische Universiteit Eindhoven.
2009-2013 PhD in Computer Science, Universiteit Leiden (graduated on September 17, 2013).
2008-2009 MSc in History and Philosophy of Science, Universiteit Utrecht (aborted for PhD position).
2005-2008 MSc in Applied Computing Science, Universiteit Utrecht (graduated on October 15, 2008).
2005-2007 MSc in Mathematical Sciences, Universiteit Utrecht (graduated on October 30, 2007).
2002-2005 BSc in Mathematics, Universiteit Utrecht (graduated on July 7, 2005).
2002-2005 BSc in Computer Science, Universiteit Utrecht (graduated on July 7, 2005).
1996-2002 Gymnasium, C.S.G. Blaise Pascal, Spijkenisse.

Awards and funding

C.J. Kokprijs 2013: the award for the best dissertation of the year in Leiden University's Faculty of Science. The award has been bestowed annually since 1971; I am the only computer scientist to ever win it.

Co-applicant in **EDIC: Exceptional and Deep Intelligent Coach**, a project funded in the NWO COMMIT2DATA - DATA2PERSON scheme, for a total amount of EUR 1 253 500.

KDD 2012 student travel award: USD 1 000 plus free registration (worth USD 380). **ICDM 2011 student travel award:** CAD 500. **ICDM 2010 student travel award:** USD 500.

1 Research

1.1 Publications

See also Google Scholar Citations: <https://scholar.google.nl/citations?user=LmsQAtAAAAAJ>.

1.1.1 Journal publications

11. W. Duivesteijn, S. Hess, X. Du: How to Cheat the Page Limit. In *WIREs Data Mining and Knowledge Discovery*, available online. Impact factor: 2.541 (2018).
10. X. Du, Y. Pei, W. Duivesteijn, M. Pechenizkiy: Exceptional Spatio-Temporal Behavior Mining through Bayesian Non-Parametric Modeling. In *Data Mining and Knowledge Discovery*, available online. Impact factor: 2.879 (2018).
9. C. Rebelo de Sá, W. Duivesteijn, P. Azevedo, A.M. Jorge, C. Soares, A. Knobbe: Discovering a Taste for the Unusual — Exceptional Models for Preference Mining. In *Machine Learning* 107 (11), pp. 1775–1807, 2018. Impact factor: 2.809.
8. L. Downar, W. Duivesteijn: Exceptionally Monotone Models — the Rank Correlation Model Class for Exceptional Model Mining. In: *Knowledge and Information Systems* 51 (2), pp. 369–394, 2017. Impact factor: 2.247.
7. C. Pölitiz, W. Duivesteijn, K. Morik: Interpretable Domain Adaptation via Optimization over the Stiefel Manifold. In: *Machine Learning* 104 (2–3), pp. 315–336, 2016. Impact factor: 1.848.
6. W. Duivesteijn: Correction to Jin-Ting Zhang’s “Approximate and Asymptotic Distributions of Chi-Squared-Type Mixtures with Applications”. In: *Journal of the American Statistical Association* 111 (515), pp. 1370–1371, 2016. Impact factor: 2.016.
5. W. Duivesteijn, A.J. Feelders, A. Knobbe: Exceptional Model Mining — Supervised Descriptive Local Pattern Mining with Complex Target Concepts. In: *Data Mining and Knowledge Discovery* 30 (1), pp. 47–98, 2016. Impact factor: 3.160.
4. R.M. Konijn, W. Duivesteijn, M. Meeng, A. Knobbe: Cost-based Quality Measures in Subgroup Discovery. In: *Journal of Intelligent Information Systems* 45 (3), pp. 337–355, 2015. Impact factor: 1.000.
3. P. Lohuis, S. Faraj-Hakim, W. Duivesteijn, A. Knobbe, A.-J. Tasman: Benefits of a Short, Practical Questionnaire to Measure Subjective Perception of Nasal Appearance after Aesthetic Rhinoplasty. In: *Plastic and Reconstructive Surgery* 132 (6), pp. 913e–923e, 2013. Impact factor: 3.328.
2. P.J.F.M. Lohuis, S. Hakim, A. Knobbe, W. Duivesteijn, G.M. Bran: Split hump technique for reduction of the overprojected nasal dorsum – a statistical analysis on subjective body image in relation to nasal appearance and nasal patency in 97 aesthetic rhinoplasty patients. In: *Archives of Facial Plastic Surgery*, 2012, 14 (5), pp. 346–353. Impact factor: 1.463.
1. S. Hakim, A. Knobbe, W. Duivesteijn, P.J.F.M. Lohuis: Results of a screening questionnaire measuring physical perception of patients undergoing esthetic rhinoplasty: a statistical analysis. In: *Nederlands Tijdschrift voor Keel-Neus-Oorheelkunde* (Dutch Journal for Otorhinolaryngology), 2010 (2), p. 100. Impact factor: 0.

1.1.2 Conference publications

22. Y. Soons, R. Dijkman, M. Jilderda, W. Duivesteijn: Predicting Remaining Useful Life with Similarity-based Priors. In: *Proceedings of the 18th International Symposium on Intelligent Data Analysis (IDA 2020)*, pp. 483–495. Acceptance rate: 0.3947 (45 out of 114).

21. X. Du, Y. Pei, W. Duivesteijn, M. Pechenizkiy: Fairness in Network Representation by Latent Structural Heterogeneity in Observational Data. In Proceedings of *the 34th AAAI Conference on Artificial Intelligence (AAAI 2020)*, to appear. Acceptance rate: 0.2056 (1591 out of 7737).
20. A. Belfodil, W. Duivesteijn, M. Planchevit, S. Cazalens, P. Lamarre: DEvIANT: Discovering significant exceptional (dis-)agreement within groups. In: Proceedings of *the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD 2019)*, to appear. Acceptance rate: 0.1771 (130 out of 734).
19. S. Hess, W. Duivesteijn: k is the Magic Number — Inferring the Number of Clusters Through Nonparametric Concentration Inequalities. In: Proceedings of *the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD 2019)*, to appear. Acceptance rate: 0.1771 (130 out of 734).
18. S. Hess, W. Duivesteijn, P. Honysz, K. Morik: The SpectACl of Nonconvex Clustering: A Spectral Approach to Density-Based Clustering. In: Proceedings of *the 33rd AAAI Conference on Artificial Intelligence (AAAI 2019)*, pp. 3788–3795. Acceptance rate: 0.1621 (1150 out of 7095).
17. X. Du, W. Duivesteijn, M. Klabbbers, M. Pechenizkiy: ELBA: Exceptional Learning Behavior Analysis. In: Proceedings of *the 11th International Conference on Educational Data Mining (EDM 2018)*, pp. 312–318. Acceptance rate: 0.4207 (61 out of 145).
16. J. Lijffijt, B. Kang, W. Duivesteijn, K. Puolamäki, E. Oikarinen, T. De Bie: Subjectively Interesting Subgroup Discovery on Real-valued Targets. In: Proceedings of *the 34th IEEE International Conference on Data Engineering (ICDE 2018)*, pp. 1352-1355. Acceptance rate: 0.2311 (98 out of 424).
A substantially longer version appeared on arXiv: <https://arxiv.org/abs/1710.04521>
15. W. Duivesteijn, T. Farzami, T. Putman, E. Peer, H.J.P. Weerts, J.N. Adegeest, G. Foks, M. Pechenizkiy: Have It Both Ways — from A/B Testing to A&B Testing with Exceptional Model Mining. In: Proceedings of *the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD 2017)*, part III, pp. 114–126. Acceptance rate: 0.2903 (27 out of 93).
14. C. Rebelo de Sá, W. Duivesteijn, C. Soares, A. Knobbe: Exceptional Preferences Mining. In: Proceedings of *the 19th International Conference on Discovery Science (DS 2016)*, pp. 3–18. Acceptance rate: 0.5000 (30 out of 60).
13. L. Downar, W. Duivesteijn: Exceptionally Monotone Models — the Rank Correlation Model Class for Exceptional Model Mining. In: Proceedings of *the 15th IEEE International Conference on Data Mining (ICDM 2015)*, pp. 111–120, 2015. Acceptance rate: 0.0843 (68 out of 807). Including short papers: 0.1821 (147 out of 807).
Distilled from Lennart’s Bachelor thesis, available at:
http://sfb876.tu-dortmund.de/PublicPublicationFiles/downar_2014a.pdf
12. W. Duivesteijn, J. Thaele: Understanding Where Your Classifier Does (Not) Work. In: Proceedings of *the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD 2015)* (III), pp. 250–253, 2015. Acceptance rate: 0.4828 (14 out of 29).
11. W. Duivesteijn, J. Thaele: Understanding Where Your Classifier Does (Not) Work — the SCaPE Model Class for EMM. In: Proceedings of *the 14th IEEE International Conference on Data Mining (ICDM 2014)*, pp. 809–814, 2014. Acceptance rate: 0.1953 (142 out of 727).
A substantially longer version appeared as Technical Report of the SFB 876 at the TU Dortmund: http://sfb876.tu-dortmund.de/PublicPublicationFiles/duivesteijn_thaele_2014a.pdf

10. J. Witteveen, W. Duivesteijn, A. Knobbe, P. Grünwald: RealKRIMP – Finding Hyperintervals that Compress with MDL for Real-Valued Data. In: Proceedings of *the 13th International Symposium on Intelligent Data Analysis (IDA 2014)*, pp. 368–379, 2014.
Acceptance rate: 0.4800 (36 out of 75).
Distilled from Jouke’s Bachelor thesis, available at:
<http://liacs.leidenuniv.nl/assets/Bachelorscripties/2012-13JoukeWitteveen.pdf>
9. M. Meeng, W. Duivesteijn, A. Knobbe: ROCsearch – An ROC-guided Search Strategy for Subgroup Discovery. In: Proceedings of *the 2014 SIAM International Conference on Data Mining (SDM 2014)*, pp. 704–712, 2014.
Acceptance rate: 0.3084 (120 out of 389).
8. W. Duivesteijn, A. Knobbe: Exceptional Model Mining – Describing Deviations in Datasets. In: Proceedings of *the 22nd Belgian-Dutch Conference on Machine Learning (BENELEARN 2013)*, p. 86, 2013.
Acceptance rate: 0.8919 (33 out of 37).
7. R.M. Konijn, W. Duivesteijn, W. Kowalczyk, A. Knobbe: Discovering Local Subgroups, with an Application to Fraud Detection. In: Proceedings of *the 17th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2013)*, pp. 1–12, 2013.
Acceptance rate: 0.1134 (39 out of 344). Including short presentations: 0.2849 (98 out of 344).
6. W. Duivesteijn, E. Loza Mencía, J. Fürnkranz, A. Knobbe: Multi-label LeGo – Enhancing Multi-label Classifiers with Local Patterns. In: Proceedings of *the 11th International Symposium on Intelligent Data Analysis (IDA 2012)*, pp. 114–125, 2012.
Acceptance rate: 0.2250 (18 out of 80). Including poster presentations: 0.4375 (35 out of 80).
A substantially longer version appeared as Technical Report TUD-KE-2012-02 of the TU Darmstadt: <http://www.ke.tu-darmstadt.de/publications/reports/tud-ke-2012-02.pdf>
5. G. Ribeiro, W. Duivesteijn, C. Soares, A. Knobbe: Multilayer Perceptron for Label Ranking. In: Proceedings of *the 22nd International Conference on Artificial Neural Networks (ICANN 2012)*, pp. 25–32, 2012.
Acceptance rate: 0.6559 (162 out of 247).
4. W. Duivesteijn, A. Feelders, A. Knobbe: Different Slopes for Different Folks – Mining for Exceptional Regression Models with Cook’s Distance. In: Proceedings of *the 18th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2012)*, pp. 868–876, 2012.
Acceptance rate: 0.1762 (133 out of 755).
3. W. Duivesteijn, A. Knobbe: Exploiting False Discoveries – Statistical Validation of Patterns and Quality Measures in Subgroup Discovery. In: Proceedings of *the 11th IEEE International Conference on Data Mining (ICDM 2011)*, pp. 151–160, 2011.
Acceptance rate: 0.1285 (101 out of 786). Including short papers: 0.1883 (148 out of 786).
2. W. Duivesteijn, A. Knobbe, A. Feelders, M. van Leeuwen: Subgroup Discovery meets Bayesian networks – an Exceptional Model Mining approach. In: Proceedings of *the 10th IEEE International Conference on Data Mining (ICDM 2010)*, pp. 158–167, 2010.
Acceptance rate: 0.0903 (72 out of 797). Including short papers: 0.1945 (155 out of 797).
1. W. Duivesteijn, A. Feelders: Nearest Neighbour Classification with Monotonicity Constraints. In: Proceedings of *the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD 2008) (I)*, pp. 301–316, 2008.
Acceptance rate: 0.1919 (100 out of 521).

1.1.3 Workshop publications

6. S.B. van der Zon, W. Duivesteijn, W. van Ipenburg, J. Veldsink, M. Pechenizkiy: ICIE 1.0: A Novel Tool for Interactive Contextual Interaction Explanations. In: *MIDAS 2018, PAP 2018: ECML PKDD 2018 Workshops*, pp. 81–94, 2019.

5. S. van der Zon, O. Zeev Ben Mordehai, T. Vrijdag, W. van Ipenburg, J. Veldsink, W. Duivesteijn, M. Pechenizkiy: BoostEMM — Transparent Boosting using Exceptional Model Mining. In: Proceedings of *the Second Workshop on Mining Data for financial applications (MIDAS 2017)*, pp. 5–14, 2017.
4. W. Duivesteijn, M. Meeng, A. Knobbe: ROCsearch in a Wider Context – A ROC-Guided Search Strategy for Subgroup Discovery and Beyond. In: Proceedings of *the First International Workshop on Learning over Multiple Contexts (LMCE 2014)*, 2014.
3. W. Duivesteijn: A Short Survey of Exceptional Model Mining – Exploring Unusual Interactions Between Multiple Targets. In: Proceedings of *the 2014 International Workshop on Multi-Target Prediction (MTP 2014)*, 2014.
2. M. Meeng, W. Duivesteijn, A. Knobbe: ROCsearch – An ROC-Guided Search Strategy for Subgroup Discovery. In: Proceedings of *the 2014 Workshop on Knowledge Discovery, Data Mining and Machine Learning (KDML 2014)*, p. 180, 2014.
1. R.M. Konijn, W. Duivesteijn, M. Meeng, A. Knobbe: Cost-based Quality Measures in Subgroup Discovery. In: Proceedings of *the 3rd Quality Issues, Measures of Interestingness, and Evaluation of data mining models workshop (QIMIE 2013)*, PAKDD Workshops, pp. 404–415, 2013.

1.2 Editor of books

- * W. Duivesteijn, A. Siebes, A. Ukkonen (eds.): Advances in Intelligent Data Analysis XVII; 17th International Symposium, IDA 2018, ‘s-Hertogenbosch, the Netherlands, October 24–26, 2018, Proceedings. Part of the *Lecture Notes in Computer Science* book series (LNCS, volume 11191), Springer, Cham.
- * M. Atzmueller, W. Duivesteijn (eds.): Artificial Intelligence; 30th Benelux Conference, BNAIC 2018, ‘s-Hertogenbosch, the Netherlands, November 8–9, 2018, Revised Selected Papers. Part of the *Communications in Computer and Information Science* book series (CCIS, volume 1021), Springer, Cham.

1.3 Co-promotor of PhD students

Jan. 2017–Nov. 2019: Negar Ahmadi (defended her thesis on November 19, 2019)

Jan. 2017–now: Xin Du

Jan. 2017–now: Simon van der Zon

1.4 Member of doctoral committees

Feb. 2020: Yulong Pei, Technische Universiteit Eindhoven

Nov. 2019: Negar Ahmadi, Technische Universiteit Eindhoven

Oct. 2018: Jianpeng Zhang, Technische Universiteit Eindhoven

Sep. 2017: Firat Ismailoglu, Universiteit Maastricht

Dec. 2016: Claudio Rebelo de Sá, Universiteit Leiden

1.5 Keynote speaker

October 2016: keynote “Some Recent Advances in Exceptional Model Mining - Unusual Preferences and more” at the PEPS Préfute workshop, IRISA INRIA Rennes, France. This was a quarterly workshop organized by and for a consortium of collaborating French data mining research groups, who invited international experts to deliver the keynote talks.

1.6 Organizer of scientific meetings

Proceedings Chair of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD 2019) in Würzburg, Germany, together with Sibylle Hess and Xin Du. Role to be reprised at ECML PKDD 2020 in Gent, Belgium, and ECML PKDD 2022 in Deauville, France (location to be confirmed).

General chair of the Thirtieth Benelux Conference on Artificial Intelligence (BNAIC 2018) in 's-Hertogenbosch, the Netherlands, together with Martin Atzmueller.

General chair of the Seventeenth International Symposium on Intelligent Data Analysis (IDA 2018) in 's-Hertogenbosch, the Netherlands.

Conference chair of the annual machine learning conference of the Benelux (Benelearn 2017) in Eindhoven, the Netherlands, together with Mykola Pechenizkiy.

Workshop chair of Silver 2012 (together with Joaquin Vanschoren), collocated with ECML PKDD in Bristol, UK. This workshop was dedicated to learning from unexpected results, and disseminating the resulting knowledge.

1.7 Member of scientific societies

2018-now: member of the IDA Advisory Board (<http://www.ida-society.org/advisoryboard.php>).

2019-now: member of the Association for the Advancement of Artificial Intelligence (AAAI).

1.8 Reviewing activities

Member of the Guest Editorial Board of the ECML PKDD 2020 journal track, implemented in partnership with the Machine Learning Journal (MACH) and the Data Mining and Knowledge Discovery Journal (DAMI).

Member of the scientific committee for the books:

- * “Data Science for Healthcare: Methodologies and Application”, published by Springer Heidelberg in 2019;
- * “Data Science for Economics and Finance: Methodologies and Applications”, to be published by Springer in 2020.

Senior PC member of IDA 2020.

Program committee member of AAAI 2020, DS 2019, ECML PKDD 2015–2019, ICDM 2014–2017 and 2019, IDA 2014–2017, IDEA@KDD 2015–2017, IJCAI 2016, ISMIS 2017, KDD 2015–2016 and 2018–2019, KDML 2014–2015, LMCE 2015, MIDAS 2019–2020, SDM 2018–2020.

Reviewer for journals DAMI, IJBDE, INS, JMLR, KAIS, MACH, NCAA, NEUCOM, TKDD, TKDE.

1.9 Research visits

- Oct. 2012:** For one day, visited the Varieng Institute at the University of Helsinki, Finland. Collaborated with Prof. Terttu Nevalainen, Tanja Säily, and Mikko Hakala on subgroup discovery and data cleaning in the Parsed Corpus of Early English Correspondence.
- Feb. 2012:** For two days, visited the Integrated Data Mining group at the Fraunhofer IAIS, Bonn, Germany. Exchanged ideas with Dr. Stefan Rüping, Dr. Henrik Großkreutz, and Dr. Mario Boley; collaborated with the latter and Sandy Moens on integrating coupling-from-the-past-sampling with subgroup discovery.
- Nov.-Dec. 2011:** For two weeks, visited the Department of Criminology at Simon Fraser University, Burnaby, Canada. Collaborated with Dr. Richard Frank on improving a webcrawler built to detect child pornography.
- Oct.-Nov. 2010:** For two weeks, visited the Knowledge Engineering group at the Technische Universität Darmstadt, Germany. Collaborated with Eneldo Loza Mencía and Prof. Johannes Fürnkranz on integrating multi-label classification with exceptional model mining having deviating Bayesian network structure as target.

2 Teaching

Obtained University Teaching Qualification (BKO/UTQ) certificate, the standard Dutch certification documenting my ability to teach in higher education, from the Technische Universiteit Eindhoven on May 14, 2019.

Developed from scratch the new course **JM0150: Data Mining**, in the Data Science and Entrepreneurship master at JADS. First lecture was on the morning of Tuesday, September 13, 2016; i.e.: on my ninth working day at TU/e. The course got rave reviews in the student evaluations.

2.1 Courses taught

For both editions of JM0150 and both editions of 2IMM20, I was the responsible lecturer.

2.1.1 Academic year 19/20

2IMM20: Foundations of Data Mining; 5 ECTS course in the Computer Science and Engineering master at TU/e; 310 students.

2IMM00: Seminar Data Mining; 5 ECTS course in the Computer Science and Engineering master at TU/e, preparing 59 students for their MSc thesis in the data mining group.

2IX30: Responsible Data Science; 5 ECTS course in the Computer Science bachelors at TU/e; 55 students.

2.1.2 Academic year 18/19

2IMM20: Foundations of Data Mining; 5 ECTS course in the Computer Science and Engineering master at TU/e; 134 students.

2IID0: Web Analytics; 5 ECTS course in the Computer Science bachelors at TU/e; 121 students.

2IAB0: Data Analytics for Engineers; 5 ECTS course in the Bachelor College, compulsory for all 2023 freshman Bachelor students TU/e-wide.

2.1.3 Academic year 17/18

JM0150: Data Mining; 6 ECTS course in the Data Science and Entrepreneurship master at JADS; 34 students.

2IID0: Web Analytics; 5 ECTS course in the Computer Science bachelors at TU/e; 97 students.

2IAB0: Data Analytics for Engineers; 5 ECTS course in the Bachelor College, compulsory for all 2300 freshman Bachelor students TU/e-wide.

2.1.4 Academic year 16/17

JM0150: Data Mining; 6 ECTS course in the Data Science and Entrepreneurship master at JADS; 16 students.

PDEDMM: Data Mining Module; course in the Data Science PDEng at JADS; 9 students.

2IID0: Web Analytics; 5 ECTS course in the Computer Science bachelors at TU/e; 77 students.

2.2 Student evaluations of my courses

The following table displays grades (on a scale from 1 to 5, where higher is better) from official student evaluations, pertaining to the question most closely mirroring overall satisfaction with the teacher. The first row gives the course code and academic year, the second row my grade.

Year	16/17	17/18	18/19	19/20
Course	JM0150	JM0150	2IMM20	2IMM20
Grade	4.71	4.82	4.0	4.4
Course	2IID0	2IID0	2IID0	
Grade	3.9	3.9	missing	
Course		2IAB0	2IAB0	
Grade		3.4	4.2	

2.3 Guest lecture

Exceptional Model Mining — Understanding Unusual Interactions Between Multiple Targets; part of the master course “Advanced Data Mining”, Universiteit Antwerpen, March 8, 2016.

2.4 Students supervised

24. Andrea Benevenuta (2020, IKNL)
23. Armand Duijn (2020, StudyPortals)
22. Jelle van der Ster (2020)
21. Nikki Branderhorst (2020, LeasePlan)
20. Noud Frints (2020)
19. Qiang Fang (2020, Nationale Politie)
18. Shama Khalil (2020, IKNL)
17. Wout de Ruiter (2018/20, Nationale Politie)
16. Natarajan Chidambaram (2019/20, Philips)
15. Vignesh Srinivasan (2019/20, Philips)
14. Chiara Attanasio (2019, IKNL)
13. Mathyn Scheerder (2018/9, Nationale Politie)
12. Brent van Strien (2018/9)
11. Charlotte Peperkamp (2018/9, Politie Amsterdam)
10. Keje Sinnige (2018/9, Eneco Group)
9. Lucas Otten (2018, Shareship)
8. Akarsh Sinha (2018, Vencomatic)
7. Youri Soons (2018, Sitech)
6. Joery de Vos (2017/8)
5. Maurice Houben (2016/7, Simbuka)
4. Boy Raaijmakers (2016/7)
3. Ahmet Celikkaya (2015)
2. Lennart Downar (2014)
1. Jouke Witteveen (2012)

The projects of students 1–16 are completed; the projects of students 17–24 are ongoing.

Student 1 was from Universiteit Leiden, students 2 and 3 were from Technische Universität Dortmund, students 9–11 were from JADS; the rest is from TU/e.

Students 1, 2, and 4 did their Bachelor thesis under my supervision, students 5 and 16 did an internship under my supervision, student 6 had me supervising his Honors Master program, student 8 did his PDEng thesis with me. The other 17 students on this list have/had me as their MSc thesis supervisor.

2.5 Teaching assistant/tutor

Spring 2016: Waarschijnlijkheidsrekening en Statistiek.

Summer 2015: Wissensentdeckung in Datenbanken.

Winter 2014/5: Software-Praktikum.

Summer 2014: Software-Praktikum.

Winter 2013/4: Software-Praktikum.

Fall 2012: Fundamentele Informatica voor Informatica & Economie.

Spring 2012: Fundamentele Informatica 3.

Fall 2011: Fundamentele Informatica 2.

Spring 2011: Fundamentele Informatica 3.

Fall 2010: Fundamentele Informatica 2.

Spring 2010: Algoritmiëk.

Fall 2009: Concepten van Programmeertalen.

Fall 2008: Wiskundige Technieken voor Fysici.

Spring 2008: Wiskunde voor Chemici.

Fall 2007: Wiskunde voor Natuurwetenschap & Innovatiëmanagement, Wiskunde voor Chemici.

Fall 2006: Lineaire Algebra, Wiskundetoepassingen.

Fall 2005: Lineaire Algebra.

Fall 2004: Lineaire Algebra, Wiskunde voor Informatici, Logica en Verzamelingen.

Spring 2004: Wiskunde voor Biologen.

3 Committees and outreach, both within and outside of academia

I was invited to represent data mining on an episode of the TU Eindhoven podcast **Sound of Science**, where the Flemish cabaretier Lieven Scheire has a ~ 45min one-on-one discussion with a scientist, for general audience consumption. Recorded in October 2019; appeared online in February 2020 as episode 16. All episodes of the podcast can be found at <https://www.tue.nl/en/research/sound-of-science/>. My episode can be listened to at <https://soundcloud.com/user-563469139/sound-of-science-16-wouter>

May 2020: day chair of EAISI-affiliated symposium “Decision making with AI in industry”; to be rescheduled.

Nov. 2019: as part of my DSCE task package, I was **day chair** at the Data Science Summit, a ~ 400 person event at the Muziekgebouw Eindhoven, on November 12, 2019. If nothing weird happens, I will reprise this role at the 2020 edition.

3.1 Invited talks

Sep. 2020: invited talk at ABN AMRO’s financial crime week.

Feb. 2019: invited talk “On the TU/e Data Mining Group, Exceptional Model Mining, and the Opel Meriva” at the first Inspiration Session of the data science innovation team, know your customer department of ABN AMRO.

Nov. 2018: invited talk “Proeftuin data-analyse en AI. Leren over verandergedrag van criminelen door verschillende lokale dataprojecten aan elkaar te koppelen” as half of a TU Eindhoven double bill with Marius Monen, at the Jamsessie Trends of the FIOD (“Fiscale Inlichtingen- en OpsporingsDienst”; the anti-fraud agency of the Dutch tax authorities).

3.2 Institutional responsibilities

Apr. 2018-now: research program manager for Customer Journey and Responsible Data Science research programs at the Data Science Center Eindhoven. Soon to be converted into Trustworthy AI research program at EAISI.

Functioned as **external committee member** in the TU/e thesis committees of (all are MSc theses, except for Rens’; his was a BSC thesis):

- | | |
|------------------------------------|--------------------------|
| 6. Rens Oostenbach (2020, Tiquets) | 3. Jeroen Hoogers (2018) |
| 5. Nena O’Driscoll (2019, NS) | 2. Li Wang (2017) |
| 4. Anja Syring (2018, PulseDC) | 1. Bob Giesbers (2016) |

In 2016/7, I spent about 30 hours working as a **scientific consultant for Witteveen & Bos**, who investigated property damage due to the Earth tremors in the Northern Dutch province of Groningen. These damages could be caused by the gas extraction taking place in this province, or by other causes. The consultancy consisted of exploring whether Exceptional Model Mining with regression as model class, could find coherent subgroups of the property dataset where the amount of damages related unusually to input parameters.

2016-now: faculty member at Technische Universiteit Eindhoven.

2007-2008: chairman of the board of students’ association A-Eskwadraat, for Mathematics, Physics, Computer Science, and Information Science, with more than 1700 members.

2006-2007: member of the “faculteitsraad Bètawetenschappen” (science faculty council) and the “departementsraad Wiskunde” (mathematics department council) at Universiteit Utrecht.

2005-2006: member of the Mathematics department’s board of education at Universiteit Utrecht.

2004-2005: member of the “opleidingscommissie Wiskunde” (mathematics education council) at Universiteit Utrecht.