Prof. Dr. Han van der Aa
Curriculum Vitae

Full name	Johannes Hendrikus van der Aa
Date of Birth	9 October 1988
Place of Birth	Sint-Oedenrode, the Netherlands
Address	Hafenstrasse 31, 68159, Mannheim, Germany
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WORK EXPERIENCE

Junior Professor in Artificial Intelligence Methods   04/2020 – current
Head of the research group on Process Analytics
Funded by the *Künstliche Intelligenz Baden-Württemberg* (KI-BW) initiative
School of Business Informatics and Mathematics
University of Mannheim, Germany

Alexander von Humboldt Fellow (post-doctoral researcher)   05/2018 – 03/2020
Databases & Information Systems Group, Department of Computer Science
Humboldt-Universität zu Berlin, Germany

Post-doctoral Researcher   01/2018 – 04/2018
Business Informatics Group, Department of Computer Sciences
Vrije Universiteit Amsterdam, the Netherlands

Ph.D. Candidate   05/2014 – 01/2018
Business Informatics Group, Department of Computer Sciences
Vrije Universiteit Amsterdam, the Netherlands

Junior Researcher   09/2013 – 02/2014
SAP AG, Germany

EDUCATION

Ph.D. in Computer Science   05/2014 – 01/2018
Vrije Universiteit Amsterdam, the Netherlands
Thesis: *Comparing and Aligning Process Representations*
Honors: *cum laude* (top 5% in the Netherlands)

M.Sc. in Business Information Systems   09/2010 – 04/2013
Eindhoven University of Technology, the Netherlands
Thesis: *Composing Workflow Activities*
Honors: *cum laude* (top 5% of the university)

B.Sc. in Industrial Engineering   09/2007 – 07/2010
Eindhoven University of Technology, the Netherlands
Honors: *cum laude* (top 5% of the university)

RESEARCH VISITS

Université Paris Dauphine, France – Visiting professor   10/2021 – current
LAMSADE Laboratory

Technion - Israel Institute of Technology, Israel – Visiting researcher   11/2017 – 12/2017
Faculty of Industrial Engineering & Management

Vienna Univ. of Economics and Business, Austria – Visiting researcher   06/2013 – 08/2013
Department of Information Systems and Operations

AWARDS

Best student paper	Int. conf. on Conceptual Modeling (ER)	2020
Runner-up best paper	Int. conf. on Business Process Management (BPM)	2019
Runner-up best thesis	Int. conf. on Business Process Management (BPM)	2018
Runner-up best paper	Int. conf. on Advanced Information Systems Engineering (CAiSE)	2017

ACQUISITION OF THIRD-PARTY FUNDS

Alexander von Humboldt Fellowship   05/2018 – 04/2020

Agency:	Alexander von Humboldt Foundation
Call:	Research Fellowships for post-doctoral researchers
Proposal:	Temporal Uncertainty in Conformance Checking of Business Processes
Role:	Principal Investigator
Amount:	**85,500 EUR**

INVITED TALKS

Research Talks

Challenges and Opportunities of Natural Language Processing in BPM University of Seville, Spain	12/2019
Complex Event Processing for Event-Based Process Querying (keynote) International Workshop on Process Querying	09/2019
Process Mining for Automated Compliance Checking ING Bank, Amsterdam, the Netherlands	11/2017
Comparing Textual Process Descriptions to Process Models Technical University of Barcelona, Spain	01/2017
An introduction to Process Model Matching (guest lecture) Technion – Israel Institute of Technology, Haifa, Israel	11/2016
Detecting Inconsistencies between Process Models and Textual Descriptions Vienna University of Economics and Business, Austria	11/2014

Tutorials

RuM: Declarative Process Mining, Distilled Int. Conf. on Business Process Management	09/2021
Process Mining: Leveraging Event Data to Understand and Improve Organizations IEEE Int. Conf. on Big Data	12/2019

SCIENTIFIC SERVICE (SELECTION)

Track Chair

HICSS Mini-Track on Business Process Technology	2022

Program Committees

Int. conf. on Process Mining (ICPM)	2021
Int. conf on Distributed and Event-Based Systems (DEBS)	2021
Int. conf. on Business Process Management (BPM)	2020 - 2021
Int. working conf. on Business Process Modeling, Development, and Support (BPMDS)	2019 – 2021
International Joint Conference on Neural Networks (IJCNN)	2020
Workshop on Process Querying	2019 – 2021
Workshop on Artificial Intelligence for Business Process Management	2018 – 2021
Workshop on Declarative/Decision/Hybrid Mining and Modelling for Business Processes	2018 – 2021
Workshop on Blockchains for Inter-Organizational Collaboration	2018
Workshop on Cognitive Business Process Management	2017

Reviewer for Journals

BISE	Business & Information Systems Engineering
COMIND	Computers in Industry
COMP	Computing
DSS	Decision Support Systems
ESWA	Expert Systems with Applications
IS	Information Systems
JODS	Journal on Data Semantics
SoSym	Software and Systems Modeling
TKDE	IEEE Transactions on Knowledge and Data Engineering

Reviewer for Conferences

HICSS	Hawaii International Conference on System Sciences	2021
ECIS	European Conference on Information Systems	2018 – 2021
AMCIS	Americas Conference on Information Systems	2017
BPMDS	Business Process Modeling, Development, and Support	2015 – 2017
WI	International Conference on Wirtschaftsinformatik	2017
ICSOC	International Conference on Service Oriented Computing	2015 – 2016

Reviewer for Funding Agencies

SNF	Swiss National Science Foundation

PUBLICATIONS

My work has been published in several prestigious journals and international conferences, including:

- Information Systems (IS) – 6x
- Decision support systems (DSS) – 2x
- IEEE Transactions on Knowledge and Data Engineering (TKDE) – 1x
- Data and Knowledge Engineering (DKE) – 2x
- Int. Conf. on Advanced Information Systems Engineering (CAISE) – 7x
- Int. Conf. on Business Process Management (BPM) – 5x
- Int. Conf. on Computational Linguistics (COLING) – 1x
- ACM Int. Conf. on Management of Data (SIGMOD) – 1x

Pre-print versions of all my publications are available at www.hanvanderaa.com/publications

SELECTED PUBLICATIONS

1. **Han van der Aa**, Adrian Rebmann, Henrik Leopold: *Natural language-based detection of semantic execution anomalies in event logs.* Information System 102: 101824, 2021.
2. Bo Zhao, **Han van der Aa**, Nguyen Thanh Tam, Nguyen Quoc Viet Hung, Matthias Weidlich: *EIRES Efficient Integration of Remote Data in Event Stream Processing.* ACM SIGMOD International Conference on Management of Data (SIGMOD 2021).
3. Adrian Rebmann, **Han van der Aa**: *Extracting Semantic Process Information from the Natural Language in Event Logs.* International Conference on Advanced Information Systems Engineering (CAiSE 2021).
4. Martin Bauer, **Han van der Aa**, Matthias Weidlich: *Sampling and Approximation Techniques for Efficient Process Conformance Checking.* Information Systems 2020 (accepted for publication).
5. **Han van der Aa**, Henrik Leopold, Matthias Weidlich: *Partial Order Resolution of Event Logs for Process Conformance Checking.* Decision Support Systems 136: 113347, 2020.
6. **Han van der Aa**, Henrik Leopold, Hajo A. Reijers: *Efficient Process Conformance Checking on the Basis of Uncertain Event-to-Activity Mappings.* IEEE Transactions on Knowledge and Data Engineering 32(5): 927-940, 2020.
7. Stephan A Fahrenkrog-Petersen, **Han van der Aa**, Matthias Weidlich: *PRIPEL: Privacy-Preserving Event Log Publishing Including Contextual Information.* International Conference on Business Process Management (BPM 2020).
8. **Han van der Aa**, Claudio Di Ciccio, Henrik Leopold and Hajo A Reijers: *Extracting Declarative Process Models from Natural Language.* International Conference on Advanced Information Systems Engineering (CAiSE 2019).
9. **Han van der Aa**, Henrik Leopold, Hajo A. Reijers: *Comparing Textual Descriptions to Process Models – The Automatic Detection of Inconsistencies.* Information Systems 64: 447-460, 2017.
10. Claudio Di Ciccio, **Han van der Aa**, Cristina Cabanillas, Jan Mendling, Johannes Prescher: *Detecting Flight Trajectory Anomalies and Predicting Diversions in Freight Transportation.* Decision Support Systems 88(1): 1-17, 2016.