Curriculum Vitae

Prof. Dr. Henrik Leopold

Name: Henrik Leopold
Date of Birth: 24/05/1986
Place of Birth: Leipzig, Germany
Marital Status: Married to Franziska Leopold
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EDUCATION

01/2011 ⇒ 07/2013	**Ph.D. in Information Systems** Thesis title: "Natural Language in Business Process Models" Humboldt University of Berlin Advisor: Prof. Dr. Jan Mendling (WU Vienna) Degree: Dr. rer. pol. (summa cum laude)
10/2008 ⇒ 10/2010	**Study of Information Systems** Humboldt University of Berlin Title of Master Thesis: "Modularization of Process Models Using Natural Language Techniques" Degree: Master of Science
10/2005 ⇒ 09/2008	**Study of Information Systems** Berlin School of Economics and Law (Dual study program) Degree: Bachelor of Science
08/1998 ⇒ 07/2005	**High School** Max-Reinhardt-Gymnasium, Berlin Degree: Abitur (High School Diploma)

APPOINTMENTS

06/2020 ⇒ today	**Associate Professor (with tenure)** Kühne Logistics University Area: Data Science and Business Intelligence
02/2019 ⇒ today	**Senior Researcher** Hasso Plattner Institute, University Potsdam Associated group: Business Process Technology (Prof. Dr. Mathias Weske)
02/2019 ⇒ 06/2020	**Assistant Professor** Kühne Logistics University Area: Data Science and Business Intelligence

02/2015	**Assistant Professor**
⇒ 01/2019	VU Amsterdam, Amsterdam, The Netherlands
	Department of Computer Science

04/2014	**Assistant Professor**
⇒ 01/2015	WU Vienna, Vienna, Austria
	Institute for Information Business

01/2011	**Research Assistant**
⇒ 01/2015	Humboldt University of Berlin, Berlin, Germany
	Institute of Information Systems

| 10/2005 | **Student Employee** |
| ⇒ 12/2010 | Bayer Healthcare AG, Berlin, Germany |

TEN MOST IMPORTANT PUBLICATIONS

The list below contains the ten most important publications ordered by year. PDF copies of all publications are available at www.henrikleopold.com.

1. H. van der Aa, A. Rebmann, and H. Leopold. Natural language-based detection of semantic execution anomalies in event logs. *Information Systems*, 102:101824, 2021.

2. H. van der Aa, H. Leopold, and M. Weidlich. Partial order resolution of event logs for process conformance checking. *Decision Support Systems*, 136, 2020.

3. H. van der Aa, H. Leopold, and H. 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.

4. C. Meilicke, H. Leopold, E. Kuss, H. Stuckenschmidt, and H. A. Reijers. Overcoming individual process model matcher weaknesses using ensemble matching. *Decision Support Systems*, 100:15–26, 2017.

5. H. van der Aa, H. Leopold, and H. A. Reijers. Comparing textual descriptions to process models - the automatic detection of inconsistencies. *Information Systems*, 2016.

6. F. Pittke, H. Leopold, and J. Mendling. Automatic detection and resolution of lexical ambiguity in process models. *IEEE Transactions on Software Engineering*, 41(6):526–544, 2015.

7. H. Leopold, J. Mendling, and A. Polyvyanyy. Supporting process model validation through natural language generation. *IEEE Transactions on Software Engineering*, 40(8):818–840, 2014.

8. H. Leopold, R.-H. Eid-Sabbagh, J. Mendling, L. G. Azevedo, and F. A. Baião. Detection of naming convention violations in process models for different languages. *Decision Support Systems*, 56:310–325, 2013.

9. H. Leopold, S. Smirnov, and J. Mendling. On the refactoring of activity labels in business process models. *Information Systems*, 37(5):443–459, 2012.

10. H. Leopold, M. Niepert, M. Weidlich, J. Mendling, R. Dijkman, and H. Stuckenschmidt. Probabilistic optimization of semantic process model matching. In *International Conference on Business Process Management*, pages 319–334. Springer, 2012.

AWARDS

2017	**Runner-up best paper award at CAiSE 2017**
	Awarded for our paper "Checking process compliance on the basis of uncertain event-to-activity mappings".
2014	**TARGION Dissertation Award (10,000 €)**
	Awarded for the best dissertation in the area of strategic information management and digitalization.
2013	**Runner-up of the McKinsey Technology Award (3,000 €)**
	Awarded for my research on natural language generation from business process models.

INVITED TALKS

05/2021	**Leuphania University of Lüneburg**
	Detecting Excecution Anomalies in Event Logs Using Natural Language Processing
01/2020	**Kiel University, Germany**
	Automatically Identifying Automation Candidates
05/2018	**WU Vienna, Austria**
	Evidence-Based Conformance Checking for Event Logs with Coarse-grained Timestamps
07/2017	**WU Vienna, Austria**
	Checking Process Compliance on the Basis of Uncertain Event-to-Activity Mappings
11/2017	**Wageningen University, The Netherlands**
	Natural Language Processing in Process Modelling: The Present and the Future
10/2017	**ING Bank, Amsterdam, The Netherlands**
	Process Mining for Automated Compliance Checking
04/2016	**ICT4V, Montevideo, Uruguay**
	Natural Language Generation from Process Models
09/2015	**University of Havana, Cuba**
	Business Process Management in Research and Practice
11/2014	**Goethe University Frankfurt, Germany**
	Generation of Natural Language Texts from Business Process Models

01/2013	**Technion - Israel Institute of Technology, Haifa, Israel** Natural Language Analysis in Business Process Models
04/2012	**UNIRIO, Rio de Janeiro, Brazil** Textual Analysis of Activity Labels of Business Process Models

RESEARCH VISITS

09/2014 ⇒ 11/2014	**University of Mannheim, Mannheim, Germany** Chair of Artificial Intelligence Work on process model matching Invited and funded by the University of Mannheim
03/2012 ⇒ 04/2012	**UNIRIO, Rio de Janeiro, Brazil** Department of Applied Informatics Work on Multi-lingual detection of process model guideline violations Funded by the German Academic Exchange Service (DAAD)
04/2010 ⇒ 07/2010	**Technical University of Eindhoven, Eindhoven, The Netherlands** School of Industrial Engineering, Information Systems Preparation of Master Thesis

TEACHING EXPERIENCE

LIST OF TAUGHT COURSES

2021	**Data Preparation and Integration** Lecture and tutorial, Bachelor, Kühne Logistics University	∼ 15 participants
2021	**Data Science** Lecture and tutorial, Master, Kühne Logistics University	∼ 60 participants
2020	**Process Mining** Lecture, Master, Hasso Plattner Institute	∼ 15 participants
2020	**Data Preparation and Integration** Lecture and tutorial, Bachelor, Kühne Logistics University	∼ 15 participants
2020	**Data Science** Lecture and tutorial, Master, Kühne Logistics University	∼ 40 participants
2019	**Process Mining** Lecture, Master, Hasso Plattner Institute	∼ 15 participants

2019	**Progamming with Python** Lecture and tutorial, Bachelor, Kühne Logistics University	~ 15 participants
2019	**Data Management** Lecture and tutorial, Bachelor, Kühne Logistics University	~ 15 participants
2018	**Business Modeling and Requirements Engineering** Lecture and tutorial, Bachelor, VU Amsterdam	~ 100 participants
2018	**Business Process Analytics** Lecture and tutorial, Master, VU Amsterdam	~ 150 participants
2017	**Business Modeling and Requirements Engineering** Lecture and tutorial, Bachelor, VU Amsterdam	~ 100 participants
2017	**Business Process Analytics** Lecture and tutorial, Master, VU Amsterdam	~ 130 participants
2017	**Process Management** Lecture and tutorial, Master, University of Mannheim	~ 100 participants
2016	**Business Process Analytics** Lecture and tutorial, Master, VU Amsterdam	~ 100 participants
2015	**Introduction to Multimedia, Information and Management** Seminar, Bachelor, VU Amsterdam	~ 15 participants
2015	**Academic English** Seminar, Bachelor, VU Amsterdam	~ 15 participants
2015	**Information Management** Lecture and tutorial, Bachelor, VU Amsterdam	~ 120 participants
2015	**Business Process Management and IT Strategy** Lecture and tutorial, Master, University of Havana	~ 25 participants
2014	**Business Information Systems II** Lecture and tutorial, Bachelor, WU Vienna	~ 40 participants
2014	**Business Information Systems II** Lecture and tutorial, Bachelor, WU Vienna	~ 40 participants
2014	**Foundations of BPM and Enterprise Systems** Lecture, Bachelor, Humboldt University of Berlin	~ 50 participants

2013	**Advanced BPM and Enterprise Systems** Lecture, Master, Humboldt University of Berlin	$\sim$ 60 participants
2013	**Information Systems I (Wirtschaftsinformatik I)** Lecture and tutorial, Bachelor, Humboldt University of Berlin	$\sim$ 250 participants
2013	**Advanced Information Systems** Seminar, Master, Humboldt University of Berlin"	$\sim$ 15 participants
2013	**Foundations of BPM and Enterprise Systems** Lecture, Bachelor, Humboldt University of Berlin	$\sim$ 50 participants
2013	**Advanced BPM and and Enterprise Systems** Seminar, Master, Humboldt University of Berlin	$\sim$ 15 participants
2012	**Advanced BPM and Enterprise Systems** Lecture, Bachelor, Humboldt University of Berlin	$\sim$ 60 participants
2012	**Information Systems I (Wirtschaftsinformatik I)** Lecture and tutorial, Bachelor, Humboldt University of Berlin	$\sim$250 participants
2012	**Advanced Information Systems** Seminar, Master, Humboldt University of Berlin	$\sim$ 25 participants
2012	**Foundations of BPM and Enterprise Systems** Lecture, Bachelor, Humboldt University of Berlin	$\sim$ 50 participants
2012	**Advanced BPM and and Enterprise Systems** Seminar, Master, Humboldt University of Berlin	$\sim$ 15 participants
2011	**Advanced Information Systems** Seminar, Master, Humboldt University of Berlin	$\sim$ 25 participants

ACQUISITION OF THIRD-PARTY FUNDS

09/2021 $\Rightarrow$ 08/2024	**Grant from German Research Foundation (DFG)** Project title: Automated Process Weakness Identification based on Social Media Posts Role: Main applicant and principal investigator **276,700 €**
02/2019 $\Rightarrow$ 02/2023	**Grant from Dutch Research Council (NWO)** Project title: Automatic Derivation of Event Logs (AutoDrive) Call: Open Technology Program Role: Main applicant and principal investigator **259,176 €**

01/2018 ⇒ 01/2022	**Grant from Dutch Research Council (NWO)** Project title: Techniques for the Analysis of Client-Team Interactions (TACTICS) Call: C2D Data Science for Evolving Data Role: Co-applicant and PhD advisor **443,268 €** (total project volume: 744,094) €
08/2015 ⇒ 08/2016	**Grant from Dutch Research Council (NWO)** Project title: Software for the Analysis of Dental Implant Quality (SADIQ) Call: Innovative public private partnership in ICT - Knowledge innovation mapping (IPPSI-KIEM) Role: Main applicant and principal investigator **78,879 €**
07/2014 ⇒ 01/2015	**Project with UniCredit Bank Austria AG** Project title: Automatic identification of service candidates in process model repositories Type: Direct industry funding Role: Main applicant and principal investigator **20,000 €**
01/2015 ⇒ 01/2019	**Grant from European Union** Project title: RISE_BPM Call: European Union's Horizon 2020 research and innovation programme - Marie Skłodowska-Curie Research and Innovation Staff Exchange Role: Co-applicant **324,000 €** (total project volume: 1,273,500 €)
07/2014 ⇒ 01/2015	**Project with Signavio GmbH** Project title: Automatic quality assurance of process models Type: Direct industry funding Role: Main applicant and principal investigator **4,000 €**
03/2012 ⇒ 04/2012	**Scholarship from German Academic Exchange Institution (DAAD)** Project title: Linguistic Analysis of Process Models Purpose: Research visit to the Federal University of the State of Rio de Janeiro My Role: Main applicant and principal investigator **2,500 €**
Total amount	**1,408,523 €**

SCIENTIFIC SERVICE

EDITORIAL APPOINTMENTS

Since 02/2017   **Associate Editor**
Business & Information Systems Engineering (BISE)

CHAIRING AND ORGANIZATION

2022   **PC Chair**
International Workshop on Enterprise Modeling and Information Systems
Architectures (EMISA 2022)

2022   **Mini Track Chair**
Hawaii International Conference on System Sciences (HICSS 2022)
Mini Track: Business Process Technology

2020   **Track Chair**
International Conference on Wirtschaftsinformatik (WI 2020)
Track: Digital Processes and Architectures

2019   **Track Chair**
European Conference on Information Systems (ECIS 2019)
Track: Modelling and Managing the Digital Enterprise and its Business
Processes

2017   **Demo Chair**
International Conference on Business Process Management (BPM 2017)

2017   **Program Co-Chair**
International Workshop on Process Querying (PQ 2017)

2016   **Program Co-Chair**
Workshop on Business Process Management and Ontologies (BPMO 2016)

2015   **Contest Chair**
Process Model Matching Contest (PMMC 2015)

2015   **Program Co-Chair**
International Workshop on Enterprise Modelling and Information Systems
Architectures (EMISA 2015)

2015   **Publicity Chair**
International Conference on Business Process Management (BPM 2015)

2013   **Contest Chair**
Process Model Matching Contest (PMMC 2013)

REVIEWER FOR JOURNALS

CSUR	ACM Computing Surveys
TMIS	ACM Transactions on Management Information Systems
BPMJ	Business Process Management Journal
ComInd	Computers in Industry
DKE	Data & Knowledge Engineering
DSS	Decision Support Systems
FGCS	Future Generation Computer Systems
TSC	IEEE Transactions on Services Computing
TSE	IEEE Transactions on Software Engineering
IPL	Information Processing Letters
IS	Information Systems
JSS	Journal of Systems and Software
JODS	Journal on Data Semantics
SoSyM	Software and Systems Modeling

PROGRAM COMMITTEE (CONFERENCES)

2019 ⇒ today	ICPM	International Conference on Process Mining
2017 ⇒ today	CAiSE	International Conference on Advanced Information Systems Engineering
2015 ⇒ today	BPM	International Conference on Business Process Management
2016 ⇒ 2020	EDOC	IEEE Enterprise Computing Conference
2015 ⇒ 2020	ICSOC	International Conference on Service Oriented Computing

PROGRAM COMMITTEE (WORKSHOPS, DEMO TRACKS, AND PHD TRACKS)

2021	BPMDS	Business Process Modeling, Development and Support
2020	IntelLanG	ECAI Workshop on Intelligent Information Processing and Natural Language Generation
2020	BPM Cases	BPM Cases Collection
2020	BPMDS	Business Process Modeling, Development and Support
2020	EMISA	International Workshop on Enterprise Modeling and Information Systems Architectures
2019	GPNP	GP Nachwuchspreis
2018	AMMoRe	International Workshop on Analytics and Mining of Model Repositories
2018	AI4BPM	Artificial Intelligence for Business Process Management
2018	BDA	International Workshop on Business Data Analytics
2018	AMMoRe	Workshop on Analytics and Mining of Model Repositories

2017	CBPM	Workshop on Cognitive Business Process Management
2016 ⇒ today	PQ	International Workshop on Process Querying
2016	ModTools	Workshop on Methodical Development of Modeling Tools
2015	ProMoS	International Workshop on Process Modelling Support Systems
2014	ICSOC	PhD Symposium of ICSOC
2014 ⇒ 2015	EDOC	Demo Track of IEEE EDOC
2013 ⇒ today	ZEUS	European Workshop on Services and their Composition
2013	BSC	International Business and System Conference
2013	BPD	International Workshop on Business Process Design
2012	BPMN	International Workshop on the Business Process Model and Notation
2012 ⇒ 2016	BPM	Demo Track of BPM

REVIEWER FOR CONFERENCES

2017	DESRIST	International Conference on Design Science Research in Information Systems and Technologies
2016 ⇒ 2018	ICIS	International Conference on Information Systems
2015	HICSS	Hawaii International Conference on System Sciences
2015	Informatik	Annual Meeting of the Society for Computer Science
2015	ER	International Conference on Conceptual Modeling
2013 ⇒ 2017	ECIS	European Conference on Information Systems
2013 ⇒ today	WI	International Conference on Wirtschaftsinformatik
2012 ⇒ 2016	CAiSE	International Conference on Advanced Information Systems Engineering
2012 ⇒ 2014	CoopIS	International Conference on Cooperative Information Systems
2011	BPMN	International Workshop on the Business Process Model and Notation

REVIEWER FOR FUNDING AGENCIES

2021	DFG	German Resarch Foundation
2021	ANID	National Research and Development Agency - Chile
2017	FWO	Research Foundation – Flanders
2016, 2017	ARRS	Slovenian Research Agency

OUTREACH

I believe in the benefits of cooperating with industry. It is a great opportunity for both transferring research insights and discovering new research problems. I initiated industry research projects with

- Artiliance BV, Utrecht, The Netherlands
- Bank Austria AG, Vienna, Austria
- DNB (Dutch Central Bank), Amsterdam, The Netherlands
- ING Bank, Amsterdam, The Netherlands
- Lana Labs GmbH, Berlin, Germany
- LunetZorg, Eindhoven, The Netherlands
- KNMT (Royal Dutch Dental Association), Utrecht, The Netherlands
- Precedence BV, Maastricht, The Netherlands
- Signavio GmbH, Berlin, Germany
- UWV (Employee Insurance Agency), Amsterdam, The Netherlands

I am also co-founder and former chief scientist of the startup company ACCHA[1], which provides a platform for managing software requirements based on artificial intelligence techniques.

LANGUAGES

- German (native)
- English (fluent in reading, writing, and speaking)
- Dutch (conversational)
- Spanish (basic)

PROFESSIONAL MEMBERSHIPS

- German Informatics Society (GI)
- Association of Information Systems (AIS)
- IEEE Task Force on Process Mining

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[1]https://accha.nl/