Curriculum Vitae – Marius Bock

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scholar.google.com/citations?user=7HPBugEAAAAJ 🎓

mariusbock.github.io 🏠

Academic Experience

since 02/2021	**PhD in Computer Science** *Supervisors*: Prof. Michael Moeller & Prof. Kristof Van Laerhoven *(Working) Title*: Weak-supervision of Inertial-based Deep Neural Networks using Unlabeled Visual Data	University of Siegen, GER
09/2018 - 11/2020	**M.Sc. in Data Science** *Final Grade:* (1.4 / 1.0) with honors *Supervisor*: Prof. Margret Keuper *Title*: Multiple Object Tracking by Link Prediction using Graph Convolution Networks	University of Mannheim, GER
06/2017 – 09/2017	**Student Researcher** Funded under DAAD RISE Worldwide *Supervisors*: Prof. Jakub Szefer & Prof. Ali Sunyaev	Yale University, USA
09/2015 - 12/2015	**Exchange semester** *Final Grade*: (4.0/ 4.0)	University of Seoul, KOR
10/2013 - 09/2017	**B.Sc. in Information Systems** *Final Grade:* (1.5/ 1.0) with distinction (top 5%)	University of Cologne, GER

Publications

<u>Note</u>: Authors are ordered by their contribution. All non-preprint publications are peer-reviewed.
† Authors contributed equally

[2023] *In review*	**Temporal Action Localization for Inertial-based HAR** **Marius Bock**, Michael Moeller, Kristof Van Laerhoven. arXiv Preprint, 2023.
[2023] *In review*	**WEAR: An Outdoor Sports Dataset for Wearable and Egocentric Activity Recognition** **Marius Bock**, Hilde Kuehne, Kristof Van Laerhoven, Michael Moeller. arXiv Preprint, 2023.
[2023]	**A Data-Driven Study on the Hawthorne Effect in Sensor-Based Human Activity Recognition** Alexander Hoelzemann†, **Marius Bock**†, et al. Adjunct Proceedings of the ACM International Joint Conference on Pervasive and Ubiquitous Computing and ACM International Symposium on Wearable Computing, 2023.
[2023]	**Hang-Time HAR: A Benchmark Dataset for Basketball Activity Recognition using Wrist-worn Inertial Sensors** Alexander Hoelzemann, Julia Romero, **Marius Bock**, Kristof Van Laerhoven, Qin Lv. Sensors; 23(13):5879, 2023.

[2022]	**Investigating (Re)current State-of-the-Art in Human Activity Recognition Datasets** **Marius Bock**, Alexander Hoelzemann, Michael Moeller, Kristof Van Laerhoven. Frontiers in Computer Science. 4:924954. 2022.
[2022]	**A Public Repository to Improve Replicability and Collaboration in Deep Learning for HAR** Lloyd Pellatt†, **Marius Bock**†, Daniel Roggen, Kristof Van Laerhoven. IEEE Proceedings of International Conference on Pervasive Computing and Communications Workshops and other Affiliated Events, 2022.
[2021]	**Tutorial on Deep Learning for Human Activity Recognition** **Marius Bock**, Alexander Hoelzemann, Michael Moeller, Kristof Van Laerhoven. Full day tutorial at ACM International Joint Conference on Pervasive and Ubiquitous Computing and ACM International Symposium on Wearable Computers, 2021.
[2021] **best paper award**	**Improving Deep Learning with Shallow LSTMs** **Marius Bock**, Alexander Hoelzemann, Michael Moeller, Kristof Van Laerhoven. ACM Proceedings of the International Symposium on Wearable Computers, 2021.

Comittees

[2023]	**Student Volunteer Co-Chair** ACM International Joint Conference on Pervasive and Ubiquitous Computing and ACM International Symposium on Wearable Computers, Cancun, Mexico

Talks

[2023]	**Temporal Action Localization for Inertial-based HAR** held Pervasive Computing Systems Group (Prof. Beigl) at Karlsruhe Institute of Technology
[2023]	**WEAR: An Outdoor Sports Dataset for Wearable and Egocentric Activity Recognition** held Mobile Systems Research Lab (Prof. Dr. Mascolo) & Cambridge Image Analysis Group (Prof. Dr. Schönlieb) at University of Cambridge

Scholarships & Awards

[2021]	**ISWC Best Paper Award** for paper "Improving Deep Learning for HAR with Shallow LSTMs" at ACM International Joint Conference on Pervasive and Ubiquitous Computing and ACM International Symposium on Wearable Computers 2021
[2021 - 2024]	**House of Young Talents - Young Academy** 3-year funded PhD scholarship
[2021]	**ZESS Stipend Award** 6-month PhD scholarship
[2020]	**W&W Prize for Outstanding Master Thesis** awarded to by the DWS group at the University of Mannheim
[2017]	**DAAD RISE Worldwide** 3-month funded research internship at foreign university
[2015]	**Dean's List Award** awarded to top 5% of students at the WiSo faculty at the University of Cologne

Teaching & supervised theses (selection)

Course [WS 2022]	**Deep Learning** Teaching Assistant, Lecture for computer science and mechanical engineering master students (50 participants)
Master Thesis [WS 2022]	**Optimizing Human Activity Data Collection through Machine-Learned Activity-Wise Skips for Minimum Prediction Performance Loss** Sanjeev Kumar, Mechatronics
Master Thesis [WS 2022]	**Video Hand Detection** Lara Verena Breuer, Computer Science
Seminar [SS 2022; SS 2023]	**Recent Advances in Machine Learning** Organizer, Seminar for computer science and mechanical engineering master students (15 participants)
Seminar [SS 2021 - WS 2022]	**Seminar in Data Science** Organizer, Seminar for computer science and mechanical engineering bachelor and master students (15 participants)

Professional experience (selection)

01/2018 - 06/2018	**Internship in Cyber Security Services** Supervisor: Joerg Asma & Adil Mansoor	PwC GmbH, GER
04/2017 - 12/2017	**Working student in Data Science** Supervisor: Glenn Neuber	SAP SE, GER
08/2016 - 02/2017	**Internship in Business Analysis/ Development** Supervisor: Glenn Neuber	SAP Australia Pty. Ltd., AUS