Sven Mayer

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Curriculum Vitae

Currently, I am a professor of computer science at TU Dortmund University. My research focuses on modeling human behavior patterns for the next generation of interactive systems, where I utilize machine learning to design, build, and evaluate future human-centered interfaces. Thus, my research sits at the intersection between Artificial Intelligence and Human-Computer Interaction.

Employment

Since 2025	**Full Professor**, TU Dortmund University, Germany Chair for Human-AI Interaction, RC Trust, Faculty of Computer Science
2020 – 2025	**Assistant Professor (Jun.-Prof.)**, LMU Munich, Germany Positively evaluated in spring of 2023 Institute of Informatics, Media Informatics
2019 – 2020	**HCI Postdoctoral Researcher**, Carnegie Mellon University, PA, USA Group: Future Interfaces Group (Prof. Chris Harrison)
2014 –2019	**HCI Researcher (Ph.D. Student)**, University of Stuttgart, Germany Goal: Modelling human behavior patterns for interactive systems Advisor: Prof. Niels Henze
2016 – 2017	**Visiting Researcher**, Max Planck Institute, Tübingen, Germany Goal: Modeling human interaction with car center consoles, concerning external influences such as road bumps Advisor: Dr. Lewis Chuang
2015 – 2015	**Visiting Researcher**, University of Glasgow, Scotland, UK Goal: Investigating the steering law with curved narrowing and winding tunnels Advisor: Prof. Roderick Murray-Smith
2011 – 2014	**Student Research Assistant**, Institute of Railway and Transportation, University of Stuttgart, Germany

Education

2014 – 2019	**Ph.D. Student in Computer Science** (Dr. rer. nat.) (magna cum laude) Thesis: "Finger Orientation as an Additional Input Dimension for Touchscreens", Institute for Visualization and Interactive Systems and Simulation Technology Cluster of Excellence, University of Stuttgart, Germany Advisors: Prof. Niels Henze
2008 – 2014	**Diploma in Computer Science** (Dipl.-Inf. – M.Sc. equiv.) (good) Thesis: "Modeling distant pointing for compensating systematic displacements", University of Stuttgart, Germany Advisor: Prof. Niels Henze
2008	Allgemeine Hochschulreife (German A-level) (good), Gewerbliche Schule Tübingen, Germany

Selected committee Work

since 2023	Steering Committee Member – Conference on Human Factors in Computing Systems (CHI)
since 2023	Steering Committee Member – Conference on Hybrid Human-Artificial Intelligence (HHAI)
2025	Paper Chair – ACM International Conference on Mobile Human-Computer Interaction (MobileHCI)
2023	Workshop Co-Chair – ACM International Conference on Human Factors in Computing Systems (CHI)
2023	Technical Program Chair – Mensch und Computer (MuC)
2023	General Chair– Conference on Hybrid Human-Artificial Intelligence (HHAI)
2022	Video Co-Chair – ACM Symposium on User Interface Software and Technology (UIST'22)
since 2021	Associate Editor – ACM Transactions on Computer-Human Interaction (ToCHI)
since 2020	Associate Editor – MDPI Multimodal Technologies and Interaction

SELECTED AWARDS

Best Paper Award	Dietz, Dennis; Oechsner, Carl; Ou, Changkun; Chiossi, Francesco; Sarto, Fabio; **Mayer, Sven**; Butz, Andreas (2022) Walk This Beam: Impact of Different Balance Assistance Strategies and Height Exposure on Performance and Physiological Arousal in VR In: ACM Symposium on Virtual Reality Software and Technology (VRST'22), ACM.
Honorable Mention Award	Jan Leusmann, Steeven Villa, Burak Berberoglu, Chao Wang, Sven Mayer (2025) Developing and Validating the Perceived System Curiosity Scale (PSC): Measuring Users' Perceived Curiosity of Systems. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '25), ACM.
Honorable Mention Award	Matthias Schmidmaier, Jonathan Rupp, Darina Cvetanova, **Sven Mayer** (2024) Perceived Empathy of Technology Scale (PETS): Measuring Empathy of Systems Toward the User. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '24), ACM.
Honorable Mention Award	Uwe Gruenefeld, Jonas Auda, Florian Mathis, Stefan Schneegass, Mohamed Khamis, Jan Gugenheimer, **Sven Mayer** (2022) VRception: Rapid Prototyping of Cross-Reality Systems in Virtual Reality. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '22), ACM.
Honorable Mention Award	Jonas Auda, Nils Verheyen, **Sven Mayer**, Stefan Schneegass (2021). Flyables: Haptic Input Devices for Virtual Reality using Quadcopters. Proceedings of the ACM Symposium on Virtual Reality Software and Technology (VRST '21), ACM.

SSELECTED TEACHING

Complete list: https://sven-mayer.com/teaching/

2024/25	**Lecture** Practical Machine Learning. Approx. 100 students M.Sc. students **Practical Course** Human-Robot Interaction 16 students M.Sc. students
2024	**Lecture** Practical Machine Learning. Approx. 60 students M.Sc. students **Practical Course** Practical Augmented Reality 16 students M.Sc. students
2023/24	**Lecture** Intelligent User Interfaces. Approx. 60 students M.Sc. students **Practical Course** Human-Robot Interaction 14 students M.Sc. students
2023	**Lecture** Practical Machine Learning. Approx. 60 students M.Sc. students **Practical Course** Development of Media Systems: Reinforcement Learning 14 students M.Sc. students
2022/23	**Lecture** Intelligent User Interfaces. Approx. 60 students M.Sc. students **Practical** Course Development of Media Systems: AI in Arts 20 students M.Sc. students
2022	**Lecture** Practical Machine Learning. Approx. 60 students M.Sc. students

SELECTED PUBLICATIONS

Complete list: https://scholar.google.de/citations?user=EfZ7ZAsAAAAJ

P1	**Mayer, Sven**; Laput, Gierad; Harrison, Chris (2020) Enhancing Mobile Voice Assistants with WorldGaze. Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI '20), ACM.
P2	Völkel, Sarah Theres; Schoedel, Ramona; Kaya, Lale; **Mayer, Sven** (2022) User Perceptions of Extraversion in Chatbots after Repeated Use. In: Proceedings of the 41st ACM Conference on Human Factors in Computing Systems, ACM.
P3	Steuerlein, Benedict; **Mayer, Sven** (2022) Conductive Fiducial Tangibles for Everyone: A Data Simulation-Based Toolkit using Deep Learning. In: Proc. ACM Hum.-Comput. Interact., iss. 6, no. MobileHCI, ACM.
P4	Rusu, Marius; **Mayer, Sven** (2023) Deep Learning Super-Resolution Network Facilitating Fiducial Tangibles on Capacitive Touchscreens. In: Proceedings of the 42nd ACM Conference on Human Factors in Computing Systems, ACM.
P5	Chiossi, Francesco; Kosch, Thomas; Menghini, Luca; Villa, Steeven; **Mayer, Sven** (2023) SensCon: Embedding Physiological Sensing into Virtual Reality Controllers. In: Proc. ACM Hum.-Comput. Interact., iss. 7, no. MobileHCI.