

Sarah Theres **Völkel**

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 German

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Profile

I am User Experience Researcher at Google in Munich, Germany. My research focuses on user perceptions of conversational agents, personalisation, online privacy for children, and transparent and controllable AI.. My strong analytical skills, ability to lead and collaborate in research projects, creativity, and excellence in innovation are evident in the 25+ publications in high-class, peer reviewed HCI venues. I am well versed in quantitative and qualitative research methods, leveraging the power of data analytics for qualitative analysis.

Education

- 07/2017 – 07/2022 **PhD in Human-Computer Interaction**
Media Informatics Group | LMU Munich | Munich
- PhD thesis: Conversational Agents with Personality
 - Grade: Summa cum laude (0.7)
- 10/2013 – 11/2016 **M.Sc. Technical Communication & Computer Science**
RWTH Aachen University | Aachen | overall grade: very good (1.3; 1.0 best – 5.0 worst)
- Focus: HCI, technology acceptance, user diversity, data mining, practical application of empirical methods
 - Thesis: Can Tangibles Perform Magic? Learners' Requirements for Successful Performance in Computer Science Using Haptical Interfaces
- 08/2014 – 12/2014 **International Student**
Brock University | St. Catharines | Canada
- Focus: Human motivation, social psychology, professional communication
- 10/2010 – 09/2013 **B.Sc. Technical Communication & Computer Science**
RWTH Aachen University | Aachen | overall grade: very good (1.5)
- Focus: Empirical research methods, cognition psychology, UI design
 - Thesis: Usability of the Multimedia Guide Aixplorer: An Empirical User Study in Aachen's Town Hall
- 10/2009 – 09/2015 **B.Sc. Computer Science**
RWTH Aachen University | Aachen | overall grade: good (1.7)
- Focus: HCI, e-learning, usability
 - Thesis: Evaluating the Impact of an Interactive Statistical Analysis System on Learning Statistics
- 08/2000 – 06/2009 **University Entrance Exam (German A-level/SAT exam)**
Jan-Joest-Gymnasium | Kalkar | overall grade: A (1.4)

Professional Experience

since 06/2022

User Experience Researcher

Google | Munich

- Led and collaborated in multi-disciplinary research projects in teams of 3 to 9 people, co-authored 27 publications (h-index: 11, [Google Scholar Profile](#))

- Led foundational, strategic, and tactical research with the goal to create a safe, enjoyable, and privacy-preserving online experience for children and teens
- Worked horizontally with product teams from multiple product areas, e.g., YouTube, Privacy/Safety/Security, Payments
- Supported organising the Google Safety Engineering Center for Kids Research to foster collaborations with Academia and NGOs
- Gave multiple presentations to cross-functional stakeholders to inform the product strategy
- Organised UX community events

07/2017 – 05/2022

Scientific Researcher

Media Informatics Group | LMU Munich | Munich

- Led and collaborated in multi-disciplinary research projects in teams of 3 to 9 people, co-authored 27 publications (h-index: 13, [Google Scholar Profile](#))
- Designed and evaluated lab/field experiments and online surveys, writing 10K+ lines of codes using Python & R
- Designed and evaluated interviews and focus groups, qualitatively analysing 120+ h of audio recordings
- Created course material and gave coding sessions (i.a. Scikit, Alexa) for Master & Bachelor classes, e.g., “[Intelligent UIs](#)”
- Coached and supervised 24+ Master/Bachelor theses students
- Led community development by regularly joining speaker engagements, e.g., student events (BWINF), [online talk shows](#)
- Fostered social engagement & created long-lasting group dynamics by organising events (e.g., Internal Colloquium) and standardising internal processes (e.g., GDPR guidelines)

07/2021 – 09/2021

User Experience Research Intern

Google Account team | Google | remote

- Selected as the only UX research summer intern in EMEA
- Conducted and analysed foundational and strategic research (remote interviews, inductive thematic analysis) with the Google Account UX team and tactical research (usability testing, affinity diagramming) with the Android team
- Worked horizontally with product teams from multiple product areas, e.g., Search, Maps, YouTube, Privacy/Safety/Security
- Gave multiple presentations to cross-functional stakeholders up to director-level to inform the product strategy

07/2017 – 06/2020

Cooperation Doctoral Student for User Experience

Series Development User Experience | Audi AG | Ingolstadt, Germany

- Developed, prototyped, and evaluated five concepts for personalised voice assistants and communicating driver states
- Introduced machine learning processes to department with multi-disciplinary team
- Gave 12 workshops/presentations to company-wide audiences

12/2016 – 03/2017

04/2016 – 05/2016

Student Assistant / Intern for User Experience

bitstars GmbH | HoloBuilder, Inc. | Aachen

- Tested the usability of an AR/AV application
- Developed an interactive tutorial displayed on website to improve user onboarding

10/2013 – 12/2016

Student Assistant in Interdisciplinary Research Projects

HCI Centre | RWTH Aachen University | Aachen

- Prepared and conducted qualitative interviews and focus groups, evaluated findings from experiments using SPSS, thereby contributing to three industry projects and five publications

04/2013

- Developed low fidelity (paper) prototypes, i.a. using Processing

Scientific Junior Associate

Media Computing Group | RWTH Aachen University | Aachen

- Implemented (Objective C) and evaluated a feature for an iPhone-based multimedia guide, displayed in Aachen's town hall since 2013

Awards

German Society for
Online Research
2021

Best Paper Award

Clemens Stachl, Quay Au, Ramona Schoedel, Samuel D. Gosling, Gabriella M. Harari, Daniel Buschek, [Sarah Theres Völkel](#), Tobias Schuwerk, Michelle Oldemeier, Theresa Ullmann, Heinrich Hussmann, Bernd Bischl, and Markus Bühner. 2020. Predicting Personality from Patterns of Behavior Collected with Smartphones. Proceedings of the National Academy of Sciences (PNAS).

CUI@IUI 2021

Best Paper Award (Top 10% of papers)

[Sarah Theres Völkel](#), Lale Kaya. 2021. Examining User Preference for Agreeableness in Chatbots. In CUI@IUI: Theoretical and Methodological Challenges in Intelligent Conversational User Interface Interactions. Workshop at the 2021 ACM Intelligent User Interface (IUI) Conference.

CHI 2020

Honourable Mention Award (Top 5% of papers)

[Sarah Theres Völkel](#), Ramona Schoedel, Daniel Buschek, Clemens Stachl, Verena Winterhalter, Markus Bühner, and Heinrich Hussmann. 2020. Developing a Personality Model for Speech-based Conversational Agents Using the Psycholexical Approach. In Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI '20).

IUI 2019

Outstanding Paper Award (Top 5% of papers)

Malin Eiband, [Sarah Theres Völkel](#), Daniel Buschek, Sophia Cook, and Heinrich Hussmann. 2019. When people and algorithms meet: user-reported problems in intelligent everyday applications. In Proceedings of the 24th International Conference on Intelligent User Interfaces (IUI '19).

2013, 2011

DeansList of RWTH Aachen University

Honours for study achievements (top 5% and 3% of the class)

2009

Award for Valedictorian Honour

Silver Coin for Special Social Commitment (1 out of 2)

Both awarded by the school

Scholarships & Grants

since 01/2020

Admission into the Faculty Mentoring Program

Honours for PhD study achievements

01/2019

SIGCHI Travel Grant

For supporting the SIGCHI Executive Committee as student volunteer

2017 – 2020

Grant for PhD studies by Audi AG

3-year funding for PhD studies awarded by the Audi AG

2014

Scholarship for International Travels

Awarded by the German Academic Scholarship Foundation

since 2012

Admission into the “Studienstiftung des deutschen Volkes” (German National Academic Foundation)

Selected as one of 0.5% of all German students to the largest and most prestigious German scholarship foundation based on leadership potential and academic success

Volunteer Work

03/2020 – 07/2021

Project Manager and Front-end Developer

Retla e.V. | Munich

- Managed a 4-person team, communicated with stakeholders, and conducted the requirement analysis
 - Developed the front end of an online data management solution, which replaced manual excel tables, using HTML, CSS, JavaScript, jQuery, Bootstrap, DataTables
- 03/2020 – 06/2021 **Private Tutor**
Corona School e.V.
 - Tutored a pupil online in Math, Computer Science, and German
- 01/2015 – 12/2016
03/2014 – 08/2014 **Head of Team**
University's Welcome Week Team (ESA Team) | RWTH Aachen University
 - Managed the 17-person team and coordinated 2,000 helpers, organising the university's Welcome Week for 8,000 students
 - Represented the project at the university, the city, and the press
 - Developed the financial concept and acquired 15K+ € sponsoring
 - Featured in the press, e.g. [Press Article](#), [You Tube Video](#)
- 08/2015 – 04/2017 **Project Manager for Strategy Development**
Students' Union Executive Committee | RWTH Aachen University
 - Developed the strategic and innovative orientation
 - Organised conceptual workshops and consulted on public relations
- 08/2015 – 07/2016 **Deputy Member, Member of the Committee for Mobility**
Student Parliament | RWTH Aachen University
- 10/2011 – 05/2016 **Deputy Head of Welcome Week**
Student Council for Communication Science | RWTH Aachen University

Teaching Experience

- 2021 Invited guest lecture on "**Conversational Agents with Personality**" for class "**Intelligent User Interfaces**" (Master) | University of Bayreuth | Bayreuth, Germany
- 2021 Invited guest lecture on "**Transparency for Intelligent Systems**" for online "**AI Campus**" class | German Research Center for Artificial Intelligence | Saarbrücken, Germany
- 2021 Guest lecture on "**Explainable AI**" for class "**Intelligent User Interfaces**" (Master) | LMU Munich | Munich, Germany
- 2020/21, 2019/20 Teaching assistant and giving a tutorial for "**Intelligent User Interfaces**" (Master) | LMU Munich | Munich, Germany
- 2020/21 Teaching assistant for practical class "**Media Design**" (Bachelor) | LMU Munich | Munich, Germany
- 2020 Teaching assistant and giving a tutorial for "**User Experience II**" (Bachelor) | LMU Munich | Munich, Germany
- 2019 Invited guest lecture in Psychology seminar "**Personality-centred personalisation**" (Master) | LMU Munich | Munich, Germany
- 2019 Teaching assistant for seminar "**Media Informatics**" (Master) | LMU Munich | Munich, Germany
- 2019 Guest lecture on "**Explainable AI**" for class "**Advanced Topics in HCI**" (Master) | LMU Munich | Munich, Germany
- 2018 Guest lecture on "**Automotive User Interfaces**" for class "**Advanced Topics in HCI**" (Master) | LMU Munich | Munich, Germany

2011, 2012

Tutor for **“Formal Languages, Automata, & Processes”** (Bachelor) | RWTH Aachen University | Aachen, Germany

Talks

05/2022

“User Perceptions of Extraversion in Chatbots after Repeated Use” | Conference Talk at CHI '22 | New Orleans, USA

04/2022

“User Perceptions of Extraversion in Chatbots after Repeated Use” | Conference Talk at GermanPreCHI '22 | Ulm, Germany

TODO Winterschool

07/2021

“Manipulating and Evaluating Levels of Personality Perceptions of Voice Assistants through Enactment-Based Dialogue Design” | Conference Talk at CUI '21 | Online

07/2021

“Developing a Personality Model for Speech-based Conversational Agents” | Featured Conference Talk at CUI '21 | Online

07/2021

“Conversational Agents with Personality” | Invited Talk at Human-Centered Artificial Intelligence Group | University of Augsburg | Augsburg, Germany

05/2021

“Eliciting and Analysing Users’ Ideal Dialogues with Voice Assistants” | Conference Talk at CHI '21 | Online

09/2020

“Developing a Personality Model for Speech-based Conversational Agents” | Invited Conference Talk at “Mensch und Computer” (MuC '20) | Online

05/2020

“Developing a Personality Model for Speech-based Conversational Agents” | Conference Talk at CHI '20 | Online

05/2020

“How to Trick AI: Users’ Strategies for Protecting Themselves Against Automatic Personality Assessment” | Conference Talk at CHI '20 | Online

05/2020

“How to Trick AI: Users’ Strategies for Protecting Themselves Against Automatic Personality Assessment” | Conference Talk at Virtual German CHI Week 2020 | Online

05/2020

“How to Trick AI: Users’ Strategies for Protecting Themselves Against Automatic Personality Assessment” | Conference Talk at Virtual German CHI Week 2020 | Online

04/2020

Guest in online talk show **“How to Do Research if Your Users Are Off Limits?”**

10/2019

“Understanding Emoji Interpretation through User Personality and Message Context” | Conference Talk at MobileHCI '19 | Taipei, Taiwan

03/2019

“When People and Algorithms Meet: User-reported Problems in Intelligent Everyday Applications” | Conference Talk at IUI '19 | Los Angeles, USA

Research Community

Program Committee

- CHI '21 (Full Paper, LBW)
- Conversational User Interfaces (CUI) Conference '21 (Full Paper, Short Paper, '22 (Senior for Full Paper, Short Paper)
- INTERACT 2021
- Operationalising Human-Centered Perspectives in Explainable AI Workshop at CHI '21
- Transparency and Explainable Smart Systems Workshop (TExSS) at IUI '21
- Explainable Smart Systems Workshop (ExSS) at IUI '20

- Organisation**
 - Publication Chair at AutoUI '19
 - Workshop Proceedings Chair at MuC '19
- Student Volunteer**
 - CHI '21
 - SIGCHI Executive Committee Volunteer for ACM Executive Vice President Helena Mentis
 - MobileHCI '19
 - AutoUI '17
 - MuC '16
- Peer Reviewing**
 - Conferences: CUI '22, CHI '22, CUI '21, CHI '21, UIST '21, EICS '21, MobileHCI '21, INTERACT '21, CSCW '21, CHI '21, WI '21, CHI '20, NordiCHI '20, ECIS '20, CHI '19, INTERACT '19, MobileHCI '18, AutomotiveUI '18
 - Journals: ToCHI, IxD&A, European Journal of Personality, IMWUT
 - Research Proposals: ETH Grants
 - I received 11 recognitions for outstanding reviews for CHI '19, '20, '21, '22, INTERACT '21, and UIST '21

Skills

Experimental Design	Designing suitable (lab) experiments with respect to validity, reliability, and replicability, field studies, driving simulator studies, experience sampling, online surveys, usability testing, power analysis								
Data Analysis	Python, R, text analytics, NLTK, Google Natural Language API, Gensim, Scikit								
Qualitative Research Methods	Interviews, focus groups, thematic analysis, grounded theory, inductive open coding, affinity diagramming								
Web, App, & Conversational UIs	Python, JavaScript, HTML, CSS, Java, jQuery, DataTables, Bootstrap, MongoDB, MySQL, Alexa Skills Kit, Telegram Bot, botpress								
Research Tools	Lo-fi prototyping, user journeys, wireframes, Processing								
Design	Adobe Photoshop, Illustrator, & InDesign, Figma								
Languages	<table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">German</td> <td style="text-align: center;">English</td> <td style="text-align: center;">French</td> <td style="text-align: center;">Spanish</td> </tr> <tr> <td style="text-align: center;">mother tongue</td> <td style="text-align: center;">Fluent</td> <td style="text-align: center;">basic</td> <td style="text-align: center;">basic</td> </tr> </table>	German	English	French	Spanish	mother tongue	Fluent	basic	basic
German	English	French	Spanish						
mother tongue	Fluent	basic	basic						

Selected Projects

A Personality Model for Voice Assistants

We developed a new multi-method approach to describe voice assistant personality using text analytics (Python, NLTK) and qualitative analysis. Based on a follow-up online survey, we proposed 10 personality dimensions. Conversation designers can use our results to develop consistent, unique agent personalities in a systematic way. Published in [CHI '20](#), **Honourable Mention Award**

Examining the Synthesis and Perception of Personality in Chatbots

We created three chatbots with different personalities by systematically varying the chatbot's language based on work in psycholinguistics. We then conducted a field study with N=34 participants, who interacted with the chatbot for a duration of four days each. Our results inform how personality can be systematically infused in chatbots and show that the perception of chatbot personality influenced user preferences and interaction behaviour. Conditionally accepted for **CHI '22**

Lead Developer for Mobile Sensing App

I led the development (6-person team) of an Android application (Android SDK, Java, MariaDB) in a multi-disciplinary research project, which automatically collects longitudinal smartphone behaviour data. I restructured the implementation processes to meet the requirements of collecting new data

types, version compatibility, and data protection regulations. Subsequently, several companies and research institutions worldwide requested to use our app. Published in [PNAS 2020](#) (5-year IF: 10.6), [European Journal of Personality 2020](#) (5-year IF: 5.2)

Publications

Peer-reviewed Conference Papers

Nima Zargham, Leon Reicherts, Michael Bonfert, [Sarah Theres Völkel](#), Johannes Schöning, Yvonne Rogers, and Rainer Malaka. **Understanding Circumstances for Desirable Proactive Behaviour of Voice Assistants: The Proactivity Dilemma**. Proceedings of the 4th Conference on Conversational User Interfaces (CUI '22). ACM, New York, NY, USA.

Fiona Draxler, Linda Hirsch, Jingyi Li, Carl Oechsner, [Sarah Theres Völkel](#), and Andreas Butz. **Flexibility and Social Disconnectness: Assessing University Students' Well-Being Using an Experience Sampling Chatbot and Surveys Over Two Years of COVID-19**. Proceedings of the 2022 ACM Designing Interactive Systems Conference (DIS '22). ACM, New York, NY, USA.

[Sarah Theres Völkel](#), Ramona Schödel, Lale Kaya, and Sven Mayer. **User Perceptions of Extraversion in Chatbots after Repeated Use**. In Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (CHI '22). ACM, New York, NY, USA. <https://doi.org/10.1145/3491102.3502058>

[Sarah Theres Völkel](#) and Lale Kaya. **Examining User Preferences for Agreeableness in Chatbots**. In Proceedings of the 3rd Conference on Conversational User Interfaces (CUI '21). ACM, New York, NY, USA. <https://doi.org/10.1145/3469595.3469633>

[Sarah Theres Völkel](#), Samantha Meindl, and Heinrich Hussmann. **Manipulating and Evaluating Levels of Personality Perceptions of Voice Assistants through Enactment-Based Dialogue Design**. In Proceedings of the 3rd Conference on Conversational User Interfaces (CUI '21). ACM, New York, NY, USA. <https://doi.org/10.1145/3469595.3469605>

[Sarah Theres Völkel](#), Daniel Buschek, Malin Eiband, Benjamin Cowan, and Heinrich Hussmann. **Eliciting and Analysing Users' Ideal Dialogues with Voice Assistants**. In Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems (CHI '21). ACM, New York, NY, USA. <https://doi.org/10.1145/3411764.3445536>

Beat Rossmly, [Sarah Theres Völkel](#), Elias Naphausen, Patricia Kimm, Alexander Wiethoff, and Andreas Muxel. 2020. **Punishable AI: Examining Users' Attitude Towards Robot Punishment**. In Proceedings of the 2020 ACM Designing Interactive Systems Conference (DIS '20). ACM, New York, NY, USA. <https://doi.org/10.1145/3357236.3395542>

[Sarah Theres Völkel](#), Penelope Kempf, and Heinrich Hussmann. 2020. **Personalised Chats with Voice Assistants: The User Perspective**. In Proceedings of the 2nd Conference on Conversational User Interfaces (CUI '20). ACM, New York, NY, USA. <https://doi.org/10.1145/3405755.3406156>

[Sarah Theres Völkel](#), Ramona Schoedel, Daniel Buschek, Clemens Stachl, Verena Winterhalter, Markus Bühner, and Heinrich Hussmann. 2020. **Developing a Personality Model for Speech-based Conversational Agents Using the Psycholexical Approach**. In Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI '20). ACM, New York, NY, USA. <https://dx.doi.org/10.1145/3313831.3376210>
🏆 Honourable Mention Award

[Sarah Theres Völkel](#), Renate Häuslschmid, Anna Werner, Andreas Butz, and Heinrich Hussmann. 2020. **How to Trick AI: Users' Strategies for Protecting Themselves Against Automatic Personality Assessment**. In Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI '20). ACM, New York, NY, USA. <https://dx.doi.org/10.1145/3313831.3376877>

[Sarah Theres Völkel](#), Christina Schneegass, Malin Eiband, and Daniel Buschek. 2020. **What is "Intelligent" in Intelligent User Interfaces? A Meta-Analysis of 25 years of IUI**. In Proceedings of the 25th International Conference on Intelligent User Interfaces (IUI '20). ACM, New York, NY, USA. <https://dx.doi.org/10.1145/3377325.3377500>

[Sarah Theres Völkel](#), Daniel Buschek, Jelena Pranjic, and Heinrich Hussmann. 2019. **Understanding Emoji Interpretation through User Personality and Message Context**. In Proceedings of the 21st International

Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI '19). ACM, New York, NY, USA. <https://doi.org/10.1145/3338286.3340114>

Malin Eiband, [Sarah Theres Völkel](#), Daniel Buschek, Sophia Cook, and Heinrich Hussmann. 2019. **When People and Algorithms Meet: User-reported Problems in Intelligent Everyday Applications**. In Proceedings of the 24th International Conference on Intelligent User Interfaces (IUI '19). ACM, New York, NY, USA. <https://doi.org/10.1145/3301275.3302262> 🏆 [Outstanding Paper Award](#)

Niklas Müller, Bettina Eska, Richard Schäffer, [Sarah Theres Völkel](#), Michael Braun, Gesa Wiegand, and Florian Alt. 2018. **Arch'n'Smile: A Jump'n'Run Game Using Facial Expression Recognition Control For Entertaining Children During Car Journeys**. In Proceedings of the 17th International Conference on Mobile and Ubiquitous Multimedia (MUM 2018). ACM, New York, NY, USA. <https://doi.org/10.1145/3282894.3282918>

Michael Braun, [Sarah Theres Völkel](#), Gesa Wiegand, Thomas Puls, Daniel Steidl, Yannick Weiß, and Florian Alt. 2018. **The Smile is The New Like: Controlling Music with Facial Expressions to Minimize Driver Distraction**. In Proceedings of the 17th International Conference on Mobile and Ubiquitous Multimedia (MUM 2018). ACM, New York, NY, USA. <https://doi.org/10.1145/3282894.3289729>

Michael Braun, Anna-Katharina Frison, [Sarah Theres Völkel](#), Florian Alt, Heinrich Hussmann, and Andreas Riener. 2018. **Beyond Transportation: How to Keep Users Attached When They Are Neither Driving nor Owning Automated Cars?** In Adjunct Proceedings of the 10th International Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI '18). ACM, New York, NY, USA. <https://doi.org/10.1145/3239092.3265963>

[Sarah Theres Völkel](#), Julia Graefe, Ramona Schödel, Renate Häuslschmid, Clemens Stachl, Quay Au, and Heinrich Hussmann. 2018. **I Drive My Car and My States Drive Me: Visualizing Driver's Emotional and Physical States**. In Adjunct Proceedings of the 10th International Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI '18). ACM, New York, NY, USA. <https://doi.org/10.1145/3239092.3267102>

[Sarah Theres Völkel](#), Wiktoria Wilkowska, and Martina Ziefle. 2018. **Gender-specific Motivation and Expectations toward Computer Science**. In Proceedings of the 4th Conference on Gender & IT (GenderIT '18). ACM, New York, NY, USA. <https://doi.org/10.1145/3196839.3196858>

Chat Wacharamanotham, Krishna Subramanian, [Sarah Theres Völkel](#), and Jan Borchers. 2015. **Statsplorer: Guiding Novices in Statistical Analysis**. In Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing Systems (CHI '15). ACM, New York, NY, USA. <https://doi.org/10.1145/2702123.2702347>

Journals

Holländer, Kai, Marius Hoggenmüller, Romy Gruber, [Sarah Theres Völkel](#), and Andreas Butz. **Take It to The Curb: Scalable Communication Between Autonomous Cars and Vulnerable Road Users Through Curbstone Displays**. *Frontiers in Computer Science*: 24. 2022.

Malin Eiband, [Sarah Theres Völkel](#), Daniel Buschek, Sophia Cook, and Heinrich Hussmann. 2020. **A Method and Analysis to Elicit User-reported Problems in Intelligent Everyday Applications**. *ACM Trans. Interact. Intell. Syst. (TiIS)*, Article 28. <https://doi.org/10.1145/3370927>

Clemens Stachl, Quay Au, Ramona Schoedel, Samuel D. Gosling, Gabriella M. Harari, Daniel Buschek, [Sarah Theres Völkel](#), Tobias Schuwerk, Michelle Oldemeier, Theresa Ullmann, Heinrich Hussmann, Bernd Bischl, and Markus Bühner. 2020. **Predicting Personality from Patterns of Behavior Collected with Smartphones**. *Proceedings of the National Academy of Sciences (PNAS)*. <https://doi.org/10.1073/pnas.1920484117>

Ramona Schoedel, Florian Pargent, Quay Au, [Sarah Theres Völkel](#), Tobias Schuwerk, Markus Bühner, and Clemens Stachl. 2020. **To Challenge the Morning Lark and the Night Owl: Using Smartphone Sensing Data to Investigate Day-Night Behaviour Patterns**. *European Journal of Personality*. <https://doi.org/10.1002/per.2258>

Ramona Schoedel, Quay Au, [Sarah Theres Völkel](#), Florian Lehmann, Daniela Becker, Markus Bühner, Bernd Bischl, Heinrich Hussmann, and Clemens Stachl. 2018. **Digital Footprints of Sensation Seeking: A Traditional Concept in the Big Data Era**. In *Zeitschrift für Psychologie*, 226, 242-245. Hogrefe Publishing, Göttingen. <https://doi.org/10.1027/2151-2604/a000342>

Textbook

Andreas Butz, Antonio Krüger, and Sarah Theres Völkel. **Mensch-Maschine Interaktion**. De Gruyter Oldenbourg. 2022.

Peer-reviewed Bookchapter

Sarah Theres Völkel, Ramona Schödel, Daniel Buschek, Clemens Stachl, Quay Au, Bernd Bischl, Markus Bühner, and Heinrich Hussmann. 2019. **Opportunities and challenges of utilizing personality traits for personalization in HCI**. In Personalized Human-Computer Interaction. Chapter 2. <https://doi.org/10.1515/9783110552485-002>

Peer-reviewed Workshop Papers

Sarah Theres Völkel, Lale Kaya. 2021. **Examining User Preferences for Agreeableness in Chatbots**. In IUI Workshop "CUI@IUI".

Sarah Theres Völkel, Penelope Kempf, and Heinrich Hussmann. 2020. **Personalised Chats with Voice Assistants: The User Perspective**. In CHI Workshop "CUI@CHI".

Michael Chromik, Malin Eiband, Sarah Theres Völkel, and Daniel Buschek. 2019. **Dark Patterns of Explainability, Transparency, and User Control for Intelligent Systems**. In IUI Workshop "Explainable Smart Systems".

Daniel Buschek, Sarah Theres Völkel, Clemens Stachl, Lukas Mecke, Sarah Prange, and Ken Pfeuffer. 2018. **Experience Sampling as Information Transmission: Perspective and Implications**. In Proceedings of the 2018 ACM International Joint Conference and 2018 International Symposium on Pervasive and Ubiquitous Computing and Wearable Computers.

Sarah Theres Völkel, Ramona Schödel, and Heinrich Hussmann. 2018. **Designing for Personality in Autonomous Vehicles: Considering Individual's Trust Attitude and Interaction Behaviour**. In CHI Workshop "Interacting with Autonomous Vehicles: Learning from other Domains".