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Senior Researcher

FIZ Karlsruhe

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Germany

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<https://www.jonaso.de>

<https://github.com/joetm>

## EDUCATION

2018 – 2021, **D.Sc.(Tech.), Computer Science** (with focus on Human-Computer Interaction)  
*Center for Ubiquitous Computing, University of Oulu, Finland*

2014 – 2015, **M.Sc., Computer Science**  
*Web and Internet Science Research Group (WAIS), University of Southampton, United Kingdom*

2013, **Certificate, Business Analysis**  
*School of Continuing Studies, University of Toronto, Canada*

2005 – 2006, **Erasmus exchange student**  
*Linköping University, Sweden*

2002 – 2011, **M.Sc., Industrial Engineering and Management**  
(with focus on Product Development)  
*Technical University of Darmstadt, Germany*

## ACADEMIC EXPERIENCE

2021 – 2021, **Senior Researcher/PostDoc**  
*Information Service Engineering, FIZ Karlsruhe & Karlsruhe Institute of Technology  
Karlsruhe, Germany*

2018 – 2021, **Doctoral Researcher**  
*Crowd Computing group, Center for Ubiquitous Computing, University of Oulu  
Oulu, Finland*

2016 – 2018, **Graduate Research Assistant** (Wissenschaftlicher Mitarbeiter)  
*Human-Centered Computing, Freie Universität Berlin and  
Cluster of Excellence “Image Knowledge Gestaltung” (Aug 2016 – Mar 2017)  
Berlin, Germany*

## WORK EXPERIENCE IN INDUSTRY

2016, **Full-Stack Web Developer**  
*Liip AG  
Bern, Switzerland*

2015 – 2016, **Linked Data Developer**  
*Seme4 Ltd.  
Southampton, United Kingdom*

2013 – 2014, **Business Analyst**  
*Alstom IS&T  
Paris, France*

2011 – 2012, **Strategy Analyst Trainee**  
*Alstom Power  
Baden, Switzerland*

2008 – 2013, **Full-Stack Web Developer** (Freelance)  
*Darmstadt, Germany*

July 2010 – Aug 2010, **IAESTE Internship**  
*Local Economic Development Department, Radoviš Municipality  
Radoviš, Macedonia*

2000 – 2002, **Military Service**  
*292nd Light Infantry Battalion, Franco-German Brigade*  
*Donaueschingen, Germany*

## **ACADEMIC AND INDUSTRY PROJECTS**

### **Academic Projects as Principal Investigator**

1. 2019 – 2020, Folk Theories for a Better Understanding of Human-AI Interaction
2. 2018 – 2021, Crowdsourcing Creative Work
3. 2015, 2018 – 2020, CrowdUI – Supporting Web Design with the Crowd

### **Academic Projects as Research Member**

1. 2021 (ongoing), EEZU  
Einfaches Erschließungs- und Zugriffssystem für kleine und mittlere Archive,  
DFG LIS No. 449727012
2. 2020 – 2021, GenZ strategic profiling project, University of Oulu  
Academy of Finland No. 318930
3. 2018 – 2021, 6G Finnish Flagship Programme  
Academy of Finland No. 318927
4. 2017 – 2018, IKON, Freie Universität Berlin & Museum of Natural History  
BMBF No. 03IO1633
5. 2016 – 2017, ID+LAB, Cluster of Excellence “Image Knowledge Gestaltung”  
DFG EXC 1027

### **Industry Projects as Research Member**

1. 2021 (ongoing), NFDI4Culture  
Consortium for research data on material and immaterial cultural heritage  
DFG No. 441958017
2. 2015 – 2016, SkillsPlanner.net, Seme4 Ltd.  
Innovate UK

## **RECOGNITION AND AWARDS**

2015, Distinction, University of Southampton

### **Scholarships and Grants**

2020, Nokia Foundation Scholarship

2020, Jenny and Antti Wihuri Foundation Grant

2020, Riitta and Jorma J. Takasen Foundation Scholarship

2020, Finnish Foundation for Technology Grant

2020, Tauno Tönning Foundation Grant

2020, Course grant, University of Oulu UniOGS

2019, Nokia Foundation Scholarship

### **Travel Grants**

2019, ACM SIGCHI

2019, University of Oulu UniOGS

2019, University of Oulu UniOGS

2018, Ubicomp/ISWC

2010, DAAD

2005, Erasmus Sokrates Scholarship (DAAD)

## **ACADEMIC SERVICE AND MANAGEMENT**

### **Associate Chair**

2019, CHI '19 Late Breaking Work

### **Program Committee Member**

2021, AAAI Conference on Human Computation and Crowdsourcing (HCOMP '21), Virtual

2018, Studierendenkonferenz Informatik (SKILL '18), Berlin, Germany

### **Organizing Committee**

2020, International Conference on Design Creativity (ICDC 2020), Virtual

2018, UBI Summer School 2018 (UBISS '18), Oulu, Finland

### **Workshop Organiser (Lead)**

2019, Workshop on Designing Crowd-powered Creativity Support Systems, CHI '19, Glasgow, Scotland

2019, Workshop on Crowd-Powered Interfaces for Creative Design Thinking, C&C '19, San Diego, CA

### **Workshop Organiser (Co-author)**

2021, Visions, Technologies, [...] for Understanding Human Scale Spaces, CHI '21, Virtual

### **Student Volunteering**

2021, BCS-HCI '21, Virtual

2021, FAccT '21, Virtual

2020, UIST '20, Virtual

2020, CSCW '20, Virtual

2019, C&C '19, San Diego, CA

2018, Ubicomp/ISWC '18, Singapore

### **Conference Reviewer**

CHI, 2019 – 2021

CSCW, 2018 – 2021

HCOMP, 2021

UIST, 2019 – 2021

C&C, 2019 – 2021

INTERACT, 2019 – 2021

EICS, 2019 – 2021

DIS, 2021

ISS, 2021

CHI PLAY, 2018, 2021

IUI, 2020

MobileHCI, 2020

HICSS, 2018

IMWUT, 2018

ICMI, 2018

ESWC, 2018

### **Journal Reviewer**

Human Computation, 2020

## **STUDENT SUPERVISIONS**

All supervisions are principal supervisions, unless otherwise stated.

### **Doctoral Students**

2021 (ongoing), Tabea Tietz

2020 – 2021, Ville Paananen

## **Master's Students**

2019, Antonio Kongjonaj  
2017 – 2018, Ömer Bayram  
2016 – 2017, Immanuel Pelzer

## **Bachelor Students**

2021 (ongoing), Aaron Maier (2nd supervisor)  
2021, Katri Säily  
2018, Bastian van de Wetering  
2018, Andre Slava Paderow

## **Research Assistants**

2017 – 2018, Tim Korjakov  
2017 – 2018, Nicolo Knapp  
2016 – 2017, Immanuel Pelzer

## **Other Supervision**

2018, Summer project, Antonio Kongjonaj  
2017, Software Project, 4 students

## **TEACHING EXPERIENCE**

### **Senior Teaching Assistant**

Human-Computer Interaction (521145A, 5 ECTS, Bachelor)  
– Autumn 2020, 151 students  
– Autumn 2019, 139 students

Social Computing (521044A, 5 ECTS, Bachelor)  
– Autumn 2020, 61 students  
– Spring 2020, 40 students

### **Teaching Assistant**

– Human-Computer Interaction (521145A, 5 ECTS, Bachelor)  
Autumn 2018, 161 students  
– Social Computing (521044A, 5 ECTS, Bachelor)  
Spring 2019, 19 students

### **Curriculum planning**

2019, Human-Computer Interaction (521145A, Bachelor), University of Oulu  
2019, Social Computing (521044A, Bachelor), University of Oulu  
2018, XML Technologies (19305401, Master), Freie Universität Berlin

### **Student Project Supervision**

2019, Applied Computing Project I (521152S, 3 students, 10 ECTS, Master), University of Oulu  
2016 – 2017, Software Project (4 students, 10 ECTS, Master), Freie Universität Berlin

### **Formal Teaching Training**

2019, Basics of University Pedagogy for Doctoral Students, 2 ECTS, University of Oulu

## **PUBLICATIONS**

27 refereed publications:  
– 4 journal articles  
– 6 full conference papers  
– 5 short papers and workshop papers

- 6 conference posters
- 3 doctoral consortia
- 3 workshops organized

### Refereed Journal Papers

- J4. **Jonas Oppenlaender**, Thanassis Tiropanis, and Simo Hosio. 2020. CrowdUI: Supporting Web Design with the Crowd. In Proceedings of the ACM on Human-Computer Interaction (PACM-HCI), Vol. 4, No. EICS, Article 76. ACM, New York, NY, USA, 28 pages. DOI: 10.1145/3394978
- J3. Andy Alorwu, Niels van Berkel, Jorge Goncalves, **Jonas Oppenlaender**, Miguel Bordallo López, Mahalakshmy Seetharaman, and Simo Hosio. 2020. Crowdsourcing Sensitive Data using Public Displays: Opportunities, Challenges, and Considerations. Personal and Ubiquitous Computing. Springer, 16 pages. DOI: 10.1007/s00779-020-01375-6
- J2. Simo Hosio, Niels van Berkel, **Jonas Oppenlaender**, and Jorge Goncalves. 2020. Crowdsourcing Personalized Weight Loss Diets. IEEE Computer, 53(1), 63–71. DOI: 10.1109/MC.2019.2902542
- J1. Simo Hosio, Jaro Karppinen, Niels van Berkel, **Jonas Oppenlaender**, and Jorge Goncalves. 2018. Mobile Decision Support and Data Provisioning for Low Back Pain. IEEE Computer, 51(8), 34–43. DOI: 10.1109/MC.2018.3191250

### Refereed Full Conference Papers

- C6. **Jonas Oppenlaender**, Elina Kuosmanen, Andrés Lucero, and Simo Hosio. 2021. Hardhats and Bungaloos: Comparing Crowdsourced Design Feedback with Peer Design Feedback in the Classroom. In Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems (CHI '21). ACM, New York, NY, USA, 1–14. DOI: 10.1145/3411764.3445380
- C5. **Jonas Oppenlaender**, Kristy Milland, Aku Visuri, Panos Ipeirotis and Simo Hosio. 2020. Creativity on Paid Crowdsourcing Platforms. In Proceedings of the 2020 ACM CHI Conference on Human Factors in Computing Systems (CHI '20). ACM, New York, NY, USA, 1–14. DOI: 10.1145/3313831.3376677
- C4. **Jonas Oppenlaender** and Simo Hosio. 2019. Design Recommendations for Augmenting Creative Tasks with Computational Priming. In Proceedings of the 18th International Conference on Mobile and Ubiquitous Multimedia (MUM '19). ACM, New York, NY, USA, Article 35, 1–13. DOI: 10.1145/3365610.3365621
- C3. **Jonas Oppenlaender**, Elina Kuosmanen, Jorge Goncalves and Simo Hosio. 2019. Search Support for Exploratory Writing. In Human-Computer Interaction – INTERACT 2019 (LNCS 11748), David Lamas, Fernando Loizides, Lennart Nacke, Helen Petrie, Marco Winckler, and Panayiotis Zaphiris (eds.). Springer International Publishing, Cham, Switzerland, 314–336. DOI: 10.1007/978-3-030-29387-1\_18
- C2. Simo Hosio, Andy Alorwu, Niels van Berkel, Miguel Bordallo, Mahalakshmy Seetharaman, **Jonas Oppenlaender**, and Jorge Goncalves. 2019. Fueling AI with Public Displays? A Feasibility Study of Collecting Biometrically Tagged Consensual Data on a University Campus. In Proceedings of the 8th ACM International Symposium on Pervasive Displays (PerDis '19). ACM, New York, NY, USA, Article 14, 1–7. DOI: 10.1145/3321335.3324943
- C1. **Jonas Oppenländer**, Falko Glöckler, Jana Hoffmann, and Claudia Müller-Birn. 2017. Bewertung von Reifegradmodellen für ein integriertes Forschungsdatenmanagement für multi-disziplinäre Forschungsorganisationen. In Jonas Kratzke and Vincent Heuveline (eds.). 2017. E-Science-Tage 2017: Forschungsdaten managen. hei-BOOKS, Heidelberg, Germany, 53–64. DOI: 10.11588/heidbooks.285.377

### Refereed Conference Short Papers and Workshop Papers

- S5. **Jonas Oppenlaender** and Jesse Josua Benjamin. 2020. Towards Metaphors for Cascading AI. In Proceedings of the Workshop on Metaphors for Human-Robot Interaction (ICSR '20), 3 pages. DOI: 10.31219/osf.io/gxt7y
- S4. **Jonas Oppenlaender**, Kristy Milland, Aku Visuri, Panos Ipeirotis, and Simo Hosio. 2020. What do crowd workers think about creative work? In Proceedings of the Workshop on Worker-Centered Design, CHI '20, 4 pages
- S3. **Jonas Oppenlaender** and Simo Hosio. 2019. Supporting Creative Work with Crowd Feedback Systems. In Proceedings of the Workshop on Designing Crowd-powered Creativity Support Systems

(DC<sup>2</sup>S<sup>2</sup>), CHI '19. Glasgow, UK

- S2. **Jonas Oppenlaender**, Kennedy Opoku Asare, and Simo Hosio. 2018. CampusTracker: Assessing Mobile Workers' Momentary Willingness to Work on Paid Crowdsourcing Tasks. In Proceedings of the 2018 ACM International Joint Conference and 2018 International Symposium on Pervasive and Ubiquitous Computing and Wearable Computers (UbiComp '18). ACM, New York, NY, USA, 648–653. DOI: 10.1145/3267305.3267550
- S1. **Jonas Oppenlaender**, Jesse J. Benjamin, and Claudia Müller-Birn. 2018. Towards Sociotechnical Management of Intra-Organisational Knowledge Transfer. In Paul Drews, Burkhardt Funk, Peter Niemeyer, and Lin Xie (eds.). 2018. Multikonferenz Wirtschaftsinformatik (MKWI '18). Leuphana Universität, Lüneburg, Germany, Band 1, 307–313

### Workshops Organized

- W3. **Jonas Oppenlaender**, Naghmi Shireen, Maximilian Mackeprang, Halil Erhan, Jorge Goncalves, and Simo Hosio. 2019. Workshop on Crowd-powered Interfaces for Creative Design Thinking. In Proceedings of the 2019 ACM SIGCHI Conference on Creativity and Cognition (C&C '19). ACM, New York, NY, USA, 722–729. DOI: 10.1145/3325480.3326553
- W2. **Jonas Oppenlaender**, Maximilian Mackeprang, Abderahmane Khiat, Maja Vuković, Jorge Goncalves, and Simo Hosio. 2019. DC<sup>2</sup>S<sup>2</sup>: Designing Crowd-powered Creativity Support Systems. In Adjunct Proceedings of the 2019 ACM CHI Conference on Human Factors in Computing Systems (CHI '19). ACM, New York, NY, USA, W06, 8 pages. DOI: 10.1145/3290607.3299027
- W1. Ville Paananen, Piia Markkanen, **Jonas Oppenlaender**, Lik Hang Lee, Haider Akmal, Ava Fatah gen. Schieck, John Dunham, Konstantinos Papangelis, Nicolas Lalone, Niels van Berkel, Jorge Goncalves, and Simo Hosio. 2021. 2VT: Visions, Technologies, and Visions of Technologies for Understanding Human Scale Spaces. In Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems (CHI EA '21). ACM, New York, NY, USA, 9 pages. 10.1145/3411763.3441315

### Doctoral Consortia

- D3. **Jonas Oppenländer**. 2020. Unterstützung Kreativer Arbeit mit Crowdsourcing. Doktoranden-seminar, Mensch und Computer (MuC '20). 5 pages. DOI: 10.31219/osf.io/7pmnc
- D2. **Jonas Oppenlaender**. 2020. Crowd-powered Creativity Support Systems. In Proceedings of 12th ACM SIGCHI Symposium on Engineering Interactive Computing Systems (EICS '20). ACM, New York, NY, USA, Article 15, 1–4. DOI: 10.1145/3393672.3398646
- D1. **Jonas Oppenlaender**. 2019. Supporting Creative Workers with Crowdsourced Feedback. In Proceedings of the 2019 on Creativity and Cognition (C&C'19). ACM, New York, NY, USA, 646–652. DOI: 10.1145/3325480.3326556

### Refereed Conference Posters

- P6. **Jonas Oppenlaender**. 2020. Socially Augmented Crowdsourced Collection of Folk Theories. In Proceedings of the Conference on Human Computation and Crowdsourcing (HCOMP '20). AAAI, New York, NY, USA, 3 pages
- P5. Panos Kostakos, Alavesa Paula, **Jonas Oppenlaender**, and Simo Hosio. 2019. VR Ethnography: A pilot study on the use of virtual reality 'go-along' interviews in Google Street View. In Proceedings of the 18th International Conference on Mobile and Ubiquitous Multimedia (MUM '19). ACM, New York, NY, USA, Article 53, 1–5. DOI: 10.1145/3365610.3368422
- P4. **Jonas Oppenlaender** and Simo Hosio. 2019. Towards Eliciting Feedback for Artworks on Public Displays. In Proceedings of the ACM Conference on Creativity & Cognition (C&C '19). ACM, New York, NY, USA, 562–569. DOI: 10.1145/3325480.3326583
- P3. **Jonas Oppenlaender**. 2019. Crowd-powered Self-Accelerating Knowledge Systems. ACM Conference on Collective Intelligence, Pittsburgh, PA, USA, 4 pages (retracted)
- P2. **Jonas Oppenlaender** and Simo Hosio. 2019. Experizone: Integrating Situated Scientific Experimentation with Teaching of the Scientific Method. In Proceedings of the CHI Conference on Human Factors in Computing Systems Extended Abstracts (CHI '19). ACM, New York, NY, USA, LBW1519, 6 pages. DOI: 10.1145/3290607.3313043
- P1. **Jonas Oppenlaender**, Jesse J. Benjamin, and Claudia Müller-Birn. 2017. Socio-technical Revelation of Knowledge Transfer Potentials. In Proceedings of the 5<sup>th</sup> AAAI Conference on Human

Computation and Crowdsourcing (HCOMP '17), AAAI, 2 pages

## Doctoral Thesis

T3. **Jonas Oppenlaender**. 2021. Crowdsourcing Creative Work. Dissertation. University of Oulu, Oulu, Finland, 193 pages (in print)

## Master Theses

T2. **Jonas Oppenlaender**. 2015. CrowdUI – A tool to remotely source and evaluate user interface adaptations. MSc thesis. Web Science Institute, University of Southampton, United Kingdom

T1. **Jonas Oppenländer**. 2009. Anwendung des Kano-Modells zur Analyse und Charakterisierung gesellschaftlicher Anforderungen an Produkte. Diplomarbeit (MSc thesis). Institute for Product Development and Machine Elements, Technical University of Darmstadt, Germany

## SELECTED SOFTWARE AND COMPUTATIONAL ARTEFACTS

CrowdUI crowd feedback system to support web design, <a href="http://www.crowdui.com">www.crowdui.com</a>	2020
sameAs-Lite, <a href="https://github.com/sem4/sameAs-Lite">github.com/sem4/sameAs-Lite</a>	2016
SIMPLEX situated feedback system, <a href="https://github.com/joetm/perdis-client">github.com/joetm/perdis-client</a>	2019
crowd-roles, web-based instrument for computational priming, <a href="https://github.com/joetm/crowd-roles">github.com/joetm/crowd-roles</a>	2019
Chopper, a tool to generate screenshots for UI elements, <a href="https://github.com/joetm/chopper">github.com/joetm/chopper</a>	2018
IKON ontology, <a href="https://fub-hcc.github.io/IKON-ontology">fub-hcc.github.io/IKON-ontology</a>	2018
SkillsPlanner linked data platform, <a href="http://www.skillsplanner.net">www.skillsplanner.net</a>	2016
GFBio Terminology Service Website, <a href="http://terminologies.gfbio.org">terminologies.gfbio.org</a>	2016
SBB Pilot Open Data Platform Public Transport Switzerland, <a href="http://opentransportdata.swiss">opentransportdata.swiss</a>	2016
Eurapco Trend Monitoring Platform, <a href="http://www.eurapco-trends.com">www.eurapco-trends.com</a>	2016

Full portfolio of web development projects: [jonaso.de/portfolio](http://jonaso.de/portfolio)

## CERTIFICATIONS AND LICENSES

2021, Design Thinking, Interaction Design Foundation (best in class)  
2020, Scrum Product Owner, Scrum Alliance  
2014, Scrum Master, Scrum Alliance  
2014, Certified Associate in Project Management, PMI  
2014, ITIL v3 Foundation, Axelos  
2013, Certificate in Business Analysis, University of Toronto  
2013, Quality Manager, TQCert/German Accreditation Body (DAkkS)  
2010, Zend Certified Engineer PHP 5 (License No. 013105)  
2009, Business English Certificate Higher (University of Cambridge)

## LANGUAGES

English (TOEFL 114/120, IELTS 8, Business English Certificate Higher)  
German (Mother tongue)  
French (4 years, uncertified)  
Spanish (1 year, uncertified)

## MEMBERSHIPS

Association for Computing Machinery (ACM)	2018 – today
ACM Special Interest Group on Computer-Human Interaction (SIGCHI)	2019 – today
Knowledge Graphs Interest Group, The Alan Turing Institute	2021 – today
Gesellschaft für Informatik e.V. (GI)	2020 – today
Institute of Electrical and Electronics Engineers (IEEE)	2014 – 2015 & 2020 – 2021