

---

Senior Researcher jonas.oppenlaender@fiz-karlsruhe.de  
Information Service Engineering (ISE)  
FIZ Karlsruhe – Leibniz Institute for Information Infrastructure  
Hermann-von-Helmholtz-Platz 1  
76344 Eggenstein-Leopoldshafen, Germany <http://www.jonaso.de>

## Education

|   |             |
|---|-------------|
| PhD in Computer Science   | 2021 (exp.) |
| Crowd Computing, Center for Ubiquitous Computing, University of Oulu      |             |
| Master of Science in Computer Science (with distinction)                  | 2015        |
| Web and Internet Science Research Group, University of Southampton        |             |
| Certificate in Business Analysis  | 2013        |
| School of Continuing Studies, University of Toronto                       |             |
| Diplom-Wirtschaftsingenieur (Master of Science in Industrial Engineering) | 2011        |
| Technical University of Darmstadt   |             |

## Professional Experience

|   |              |
|---|--------------|
| Senior Researcher   | 2021 – today |
| Information Service Engineering (ISE), FIZ Karlsruhe, Germany       |              |
| Doctoral Researcher   | 2018 – 2021  |
| Crowd Computing, University of Oulu, Finland                        |              |
| Research Assistant (Wissenschaftlicher Mitarbeiter)                 | 2016 – 2018  |
| Human-Centered Computing, Freie Universität Berlin, Germany         |              |
| Research Assistant (Wissenschaftlicher Mitarbeiter)                 | 2016 – 2017  |
| Cluster of Excellence “Image Knowledge Gestaltung”, Berlin, Germany |              |
| Full-Stack Web Developer  | 2016         |
| Liip AG, Bern, Switzerland  |              |
| Linked Data Developer   | 2015 – 2016  |
| Seme4 Ltd., Southampton, United Kingdom                             |              |
| Business Analyst  | 2013 – 2014  |
| Alstom IS&T, Paris, France  |              |
| Strategy Analyst Trainee  | 2011 – 2012  |
| Alstom Power, Baden, Switzerland                                    |              |
| Full-Stack Web Developer (Freelance)                                | 2008 – 2013  |
| Darmstadt, Germany  |              |
| Military Service  | 2000 – 2002  |
| Franco-German Brigade, Donaueschingen, Germany                      |              |

## Academic Projects as Principal Investigator

- |   |                   |
|---|-------------------|
| 1. Folk Theories for a Better Understanding of Human-AI Interaction | since 2021        |
| 2. Crowdsourcing Creative Work                                      | 2018 – 2021       |
| 3. CrowdUI  | 2015, 2018 – 2020 |

## Academic Projects as Research Member

- |   |             |
|---|-------------|
| 1. NFDI4Culture, FIZ Karlsruhe  | since 2021  |
| 2. GenZ strategic profiling project, University of Oulu (Academy of Finland 318930) | 2020 – 2021 |
| 3. 6G Flagship (Academy of Finland 318927)  | 2018 – 2021 |
| 4. IKON, Freie Universität Berlin & Museum of Natural History, Berlin               | 2016 – 2018 |
| 5. ID+LAB, Cluster of Excellence “Image Knowledge Gestaltung”                       | 2016 – 2017 |

## Industry Projects as Research Member

1. SkillsPlanner.net, Seme4 Ltd. 2015 – 2016

## Research Visits and Volunteering

Volunteer Local Economic Development Department, Radoviš, Macedonia 2010  
Erasmus exchange student, Institute of Technology, Linköping University 2005 – 2006

## Recognition and Awards

Invited Member of Doctoral Consortium at Mensch und Computer '20 2020  
Invited Member of Doctoral Consortium at EICS '20 2020  
Invited Member of Graduate Student Symposium at Creativity & Cognition '19 2019  
Distinction, University of Southampton 2015

## Scholarships and Grants

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, 2020  
Nokia Foundation Scholarship, 2019

## Travel Grants

ACM SIGCHI, 2019  
University of Oulu UniOGS, 2019  
University of Oulu UniOGS, 2019  
UbiComp/ISWC, 2018  
DAAD, 2010  
Erasmus Sokrates Scholarship (DAAD), 2005

## Academic Service and Activities

### Associate Chair

Associate Chair, CHI '19 Late Breaking Work 2019

### Organizing Committee

6th International Conference on Design Creativity (ICDC 2020), Virtual 2020  
UBI Summer School 2018 (UBISS '18), Oulu, Finland 2018

### Workshop Organizer (Lead)

Workshop on Designing Crowd-powered Creativity Support Systems 2019  
CHI '19, Glasgow, United Kingdom  
Workshop on Crowd-Powered Interfaces for Creative Design Thinking 2019  
C&C '19, San Diego, CA, United States

### Workshop Organizer (Co-author)

Visions, Technologies, and Visions of Technologies for Understanding Human Scale Spaces 2021  
CHI '21, Virtual

### Program Committee Member

Studierendenkonferenz Informatik (SKILL '18), Berlin 2018

### Student Volunteering

ACM FAccT '21, Virtual 2021  
UIST '20, Virtual 2020  
CSCW '20, Virtual 2020

|   |      |
|---|------|
| Creativity & Cognition (C&C '19), San Diego, CA | 2019 |
| Ubicomp/ISWC '18, Singapore                     | 2018 |

## Peer Review

### Conference Reviewer

|           |           |
|-----------|-----------|
| CHI       | 2019–2021 |
| INTERACT  | 2019–2021 |
| DIS       | 2021      |
| UIST      | 2019–2021 |
| C&C       | 2019–2021 |
| CSCW      | 2018–2020 |
| IUI       | 2020      |
| EICS      | 2019–2020 |
| MobileHCI | 2020      |
| HICSS     | 2018      |
| IMWUT     | 2018      |
| CHI PLAY  | 2018      |
| ICMI      | 2018      |
| ESWC      | 2018      |

### Journal Reviewer

|                   |      |
|-------------------|------|
| Human Computation | 2020 |
|-------------------|------|

## Student Supervisions

### Doctoral Students

|             |            |
|-------------|------------|
| Tabea Tietz | since 2021 |
|-------------|------------|

### Master's Students

|                   |      |
|-------------------|------|
| Antonio Kongjonaj | 2019 |
| Ömer Bayram       | 2018 |
| Immanuel Pelzer   | 2017 |

### Bachelor Students

|                         |      |
|-------------------------|------|
| Katri Säily             | 2021 |
| Bastian van de Wetering | 2018 |
| Andre Slava Paderow     | 2018 |

### Research Assistants

|                 |             |
|-----------------|-------------|
| Tim Korjakov    | 2017 – 2018 |
| Nicolo Knapp    | 2017 – 2018 |
| Immanuel Pelzer | 2016 – 2017 |

### Other Supervision

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

## Teaching Experience

### Co-Teacher

|  |      |
|--|------|
| Social Computing (521044A, 61 students, 5 ECTS, Bachelor) <sup>1</sup> | 2020 |
| Social Computing (521044A, 40 students, 5 ECTS, Bachelor)              | 2020 |
| Social Computing (521044A, 19 students, 5 ECTS, Bachelor)              | 2019 |

---

<sup>1</sup>This course was held twice in 2020 because of a change in the schedule from Spring to Autumn.

## Teaching Assistant

|  |             |
|--|-------------|
| Human-Computer Interaction (521145A, 151 students, 5 ECTS, Bachelor) | 2020        |
| Human-Computer Interaction (521145A, 139 students, 5 ECTS, Bachelor) | 2019        |
| Human-Computer Interaction (521145A, 161 students, 5 ECTS, Bachelor) | 2018        |
| Applied Computing Project I (521152S, 3 students, 10 ECTS, Master)   | 2019        |
| Software Project (4 students, Bachelor and Master)                   | 2016 – 2017 |

## Curriculum planning

|  |      |
|--|------|
| Social Computing (521044A, Bachelor), University of Oulu               | 2019 |
| Semantic Web Technologies (19305401, Master), Freie Universität Berlin | 2018 |

## Publications

### Peer-reviewed Journal Papers

- J1. Jonas Oppenlaender, Thanassis Tiropanis, and Simo Hosio. 2020. CrowdUI: Supporting Web Design with the Crowd. In *Proceedings of the ACM on Human-Computer Interaction*, Vol. 4, No. EICS, Article 76. ACM, New York, NY, USA, 28 pages. DOI: 10.1145/3394978
- J2. 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
- J3. 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
- J4. 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
- J5. 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

### Peer-reviewed Conference Papers

- C1. Jonas Oppenlaender, Elina Kuosmanen, Andrés Lucero, and Simo Hosio. 2021. Hardhats and Bungaloes: 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
- C2. 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
- C3. 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
- C4. 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
- C5. 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/heibooks.285.377

### Peer-reviewed Short Papers and Workshop Papers

- SP1. 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
- SP2. 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.
- SP3. 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.
- SP4. 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.
- SP5. 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

- W1. 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
- W3. 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

- DC1. Jonas Oppenländer. 2020. Unterstützung Kreativer Arbeit mit Crowdsourcing. Doktoranden-seminar, Mensch und Computer (MuC '20). 5 pages. DOI: 10.31219/osf.io/7pmnc
- DC2. 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
- DC3. 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

### Conference Posters

- P1. 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.
- P2. 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
- P3. 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
- P4. Jonas Oppenlaender. 2019. Crowd-powered Self-Accelerating Knowledge Systems. ACM Conference on Collective Intelligence, Pittsburgh, PA, USA, 4 pages (retracted).

- P5. 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
- P6. 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.

## Theses

- T1. Jonas Oppenlaender. 2015. CrowdUI – A tool to remotely source and evaluate user interface adaptations. MSc thesis. Web Science Institute, University of Southampton, United Kingdom.
- T2. 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.

## Certifications and Licenses

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

## Languages

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

## Memberships

|   |             |
|---|-------------|
| Association for Computing Machinery (ACM)                         | 2018 – 2021 |
| ACM Special Interest Group on Computer-Human Interaction (SIGCHI) | 2019 – 2021 |
| Gesellschaft für Informatik e.V. (GI)                             | 2020 – 2021 |
| Institute of Electrical and Electronics Engineers (IEEE)          | 2020 – 2021 |
| Association for Information Systems (AIS)                         | 2018 – 2019 |