https://www.jonaso.de

#### **EDUCATION**

#### 2018 – 2021, D.Sc. (Tech.), Computer Science (with distinction)

Crowd Computing Group, Center for Ubiquitous Computing, University of Oulu, Finland

### 2014 – 2015, M.Sc., Computer Science (with distinction)

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 (KIT) 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

Berlin, Germany

### Aug 2016 - Mar 2017, Graduate Research Assistant (Wissenschaftlicher Mitarbeiter)

Cluster of Excellence "Image Knowledge Gestaltung",

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

### Nov 2004 – Feb 2011, Internships in industry (26 weeks)

 $Goodyear\ Dunlop\ Tires\ Germany\ GmbH,\ Karl\ Mayer\ Textile\ Machinery\ GmbH,\ Lubricant\ Consult\ GmbH,\ Kegelmann\ Technik\ GmbH$ 

Frankfurt Rhine-Main, Germany

# 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, 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, NFDI4Culture

Consortium for research data on material and immaterial cultural heritage DFG No.  $441958017\,$ 

 2015 – 2016, SkillsPlanner.net, Seme4 Ltd. Innovate UK

### AWARDS AND RECOGNITION

2021, Distinction  $^{1},$  University of Oulu

2015, Distinction<sup>2</sup>, University of Southampton

## Scholarships and Grants

<sup>&</sup>lt;sup>1</sup>highest distinction possible, "for an exceptionally high quality thesis representing the top 15% in its field"

<sup>&</sup>lt;sup>2</sup> "awarded for a Final Average Mark of 70 and over"

2021, Toloka Research Grant

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, UIST '21, Virtual

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

2018, UBISS '18, Oulu, Finland

### Conference Reviewer

CHI, 2019 - 2022

C&C, 2019 - 2022

CSCW, 2018 - 2021

HCOMP, 2021

UIST, 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

Environment & Behavior, 2022 Human Computation, 2020

#### TEACHING EXPERIENCE

### Human-Computer Interaction (521145A, 5 ECTS, Bachelor)

- Autumn 2020, 151 students
- Autumn 2019, 139 students
- Autumn 2018, 161 students

# Social Computing (521044A, 5 ECTS, Bachelor)

- Autumn 2020, 61 students
- Spring 2020, 40 students
- 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 2018, Summer project, Antonio Kongjonaj

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

#### STUDENT SUPERVISIONS

All supervisions are principal supervisions, unless otherwise stated.

### **Doctoral Students**

2021, Tabea Tietz

2020 - 2021, Ville Paananen

### Master's Students

2019, Antonio Kongjonaj (completed)

2017 – 2018, Ömer Bayram

2016 – 2017, Immanuel Pelzer (completed)

#### **Bachelor Students**

2021, Aaron Maier (2nd supervisor)

2021, Katri Säily (completed)

2018, Bastian van de Wetering

2018, Andre Slava Paderow

#### Research Assistants

2017 – 2018, Tim Korjakov

2017 - 2018, Nicolo Knapp

2016 – 2017, Immanuel Pelzer

### **Publications**

34 refereed publications, including:

jonaso.de/publications/

- 4 journal articles
- 7 full conference papers
- 6 short papers and workshop papers
- 9 conference posters
- 3 doctoral consortia
- 4 workshops organized

#### **Doctoral Thesis**

**Jonas Oppenlaender**. 2021. Crowdsourcing Creative Work. Dissertation. University of Oulu, Oulu, Finland, 208 pages, ISBN 978-952-62-3014-6, http://jultika.oulu.fi/Record/isbn978-952-62-3014-6

# 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

- C7. Ville Paananen, Jonas Oppenlaender, Jorge Goncalves, Danula Hettiachchi, and Simo Hosio. 2021. Investigating Human Scale Spatial Experience. ACM Interactive Surfaces and Spaces Conference (ISS 2021), 17 pages. DOI: 10.1145/3488541
- 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/heibooks.28 5.377

### Refereed Conference Short Papers and Workshop Papers

- S6. Mary Ann Tan, Tabea Tietz, Oleksandra Bruns, Jonas Oppenlaender, Danilo Dess, and Harald Sack. 2021. DDB-KG: The German Bibliographic Heritage in a Knowledge Graph. HistoInformatics 2021 Workshop, 8 pages
- 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

- W4. Andy Alorwu, Saiph Savage, Niels van Berkel, Dmitry Ustalov, Alexey Drutsa, **Jonas Oppenlaender**, Oliver Bates, Danula Hettiachchi, Ujwal Gadiraju, Jorge Goncalves, and Simo Hosio. Reimagining Global Crowdsourcing for Better Human and Artificial Intelligencies Collaboration. 2022 CHI Conference on Human Factors in Computing Systems (CHI '22).
- 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
- W2. 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
- W1. 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

# **Doctoral Consortia**

- D3. Jonas Oppenländer. 2020. Unterstützung Kreativer Arbeit mit Crowdsourcing. Doktorandenseminar, 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

#### Conference Posters

- P9. Jonas Oppenlaender and Simo Hosio. 2021. Towards a Requester-centered Study on the Use of 'Bots' for Completing Tasks. In Proceedings of the Conference on Human Computation and Crowdsourcing (HCOMP '21). AAAI, New York, NY, USA, 3 pages
- P8. **Jonas Oppenlaender**. 2021. Morphological Matrices as a Tool for Crowdsourced Ideation. In Proceedings of the Conference on Human Computation and Crowdsourcing (HCOMP '21). AAAI, New York, NY, USA, 3 pages
- P7. Mary Ann Tan, Tabea Tietz, Oleksandra Bruns, **Jonas Oppenlaender**, Danilo Dessì, and Harald Sack. 2021. DDB-EDM to FaBiO: The Case of the German Digital Library. In Proceedings of the International Semantic Web Conference (ISWC '21). Springer, New York, NY, USA, 4 pages
- 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

# Master Theses

- T4. Jonas Oppenlaender. 2015. CrowdUI A tool to remotely source and evaluate user interface adaptations. MSc thesis. Web Science Institute, University of Southampton, United Kingdom, 132 pages
- T3. 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, 139 pages

#### Studienarbeiten

- S2. Jonas Oppenländer. 2008. Geschäftskonzept für ein auf P2P basierendes Soziales Netzwerk. Studienarbeit. Dr.-Otto-Röhm-Stiftungsprofessur für Unternehmensgründung. Technical University of Darmstadt, Germany, 203 pages
- S1. Jonas Oppenländer. 2008. Entwicklung einer Beschreibungssprache für Produktentwicklungsinhalte. Studienarbeit. Institute for Product Development and Machine Elements. Technical University of Darmstadt, Germany, 129 pages

# SELECTED SOFTWARE AND COMPUTATIONAL ARTEFACTS

AI-generated artworks, www.jonaso.de/art/ CrowdUI crowd feedback system to support web design, www.crowdui.com sameAs-Lite, github.com/seme4/sameAs-Lite SIMPLEX situated feedback system, github.com/joetm/perdis-client crowd-roles, web-based instrument for computational priming, github.com/joetm/crowd-roles Chopper, a tool to generate screenshots for UI elements, github.com/joetm/chopper IKON ontology, fub-hcc.github.io/IKON-ontology SkillsPlanner linked data platform, www.skillsplanner.net GFBio Terminology Service Website, terminologies.gfbio.org SBB Pilot Open Data Platform Public Transport Switzerland, opentransportdata.swiss Eurapco Trend Monitoring Platform, www.eurapco-trends.com Full portfolio of web development projects: jonaso.de/portfolio	2021 2020 2016 2019 2019 2018 2018 2016 2016 2016
Presentations and Talks	
Invited Talks and Lectures	
Department of Computer Science and Informatics, Jönköping University, Virtual Computational Social Science, ETH Zürich, Virtual Computer Science Department, Swansea University, Virtual Information Service Engineering, FIZ Karlsruhe, Virtual "The FAIR data principle." Forschungszentrum Jülich, Virtual	2021 2021 2021 2021 2021
Full paper presentations	
Symposium on Engineering Interactive Computing Systems (EICS '21), Virtual CHI Conference on Human Factors in Computing Systems (CHI '21), Virtual International Conference on Mobile and Ubiquitous Multimedia (MUM '19), Pisa IFIP TC.13 Int. Conference on Human-Computer Interaction (INTERACT '19), Paphos Multikonferenz Wirtschaftsinformatik (MKWI '18), Lüneburg	2021 2021 2019 2019 2018
Poster presentations	
Conference on Human Computation and Crowdsourcing (HCOMP 2021), Virtual Conference on Human Computation and Crowdsourcing (HCOMP 2020), Virtual International Conference on Mobile and Ubiquitous Multimedia (MUM '19), Pisa Creativity & Cognition (C&C '19), San Diego, CA Conference on Human Factors in Computing Systems (CHI '19), Glasgow Multikonferenz Wirtschaftsinformatik (MKWI '18), Lüneburg AAAI Conference on Human Computation and Crowdsourcing (HCOMP '17), Quebec City	2021 2020 2019 2019 2019 2018 2017
Workshop presentations	
Workshop on Designing Crowd-powered Creativity Support Systems, Glasgow Workshop on Mobile Human Contributions (MHC '18), Singapore	2019 2018
Doctoral consortia	
Mensch und Computer (MuC '20), Virtual Symposium on Engineering Interactive Computing Systems (EICS '20), Virtual Creativity & Cognition (C&C '19), San Diego, CA	2020 2020 2019
Other presentations	
Research seminar, Freie Universität Berlin Research seminar, Freie Universität Berlin Project kick-off, Museum für Naturkunde, Berlin	2017 2017 2017

# CERTIFICATIONS AND LICENSES

2021, Design Thinking, Interaction Design Foundation

- 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 Touring Institute	2021
Gesellschaft für Informatik e.V. (GI)	2020-2021
Institute of Electrical and Electronics Engineers (IEEE)	2014 - 2015 & 2020 - 2021
Association for Information Systems (AIS)	2018 - 2019