

RESUMÉ - Dr. Ingo Scholtes

PERSONAL INFORMATION

Date and place of birth: February 1st 1980 in Trier, Germany
Private address: Regensdorferstr. 36, 8049 Zürich, Switzerland
E-Mail: ischoltes@ethz.ch
Website: <http://www.ingoscholtes.net>
Language skills: German (native), English (fluent, bilingual *Abitur*)
Hobbies: (astro-)photography, hiking, cycling, sailing

KEY ACHIEVEMENTS

- My works on data analytics methods for time-resolved data were **published in premiere interdisciplinary outlets** like *Nature Communications*, *Physical Review Letters* or *The European Physical Journal B* and led to **invitations to talk at international top universities**.
- My data-driven studies of social systems were **published in prestigious venues in computer science, data and information science** like the *International Conference on Software Engineering*, the *International Conference on Modularity*, *Empirical Software Engineering*, *Scientometrics* and *EPJ Data Science*.
- At ETH Zürich I **developed an interdisciplinary course on data and network science** which bridges the curricula of computer science, natural and social sciences. The course received excellent scores in the ETH teaching evaluation and led to an **invitation to teach at the National University of Singapore**.
- I was recently appointed “**Vertretungsprofessor**” (W3) at the **Karlsruhe Institute of Technology (KIT)**, where I **developed a new course on large distributed systems**. My course received the highest possible score in the official teaching evaluation of KIT.
- I was **lead developer of the ATLAS Event Monitoring system**, a massive data filtering and analysis system used by thousands of physicists at the ATLAS detector within the Large Hadron Collider at CERN.
- As co-PI, I **acquired third-party funding of more than EUR 280,000**. As co-investigator, I **led a team of ten Phd, master students and technical assistants** in projects with a volume of **more than EUR 900,000**.
- For outstanding achievements in interdisciplinary applications of computer science methods, in 2014 I **was awarded a Junior-Fellowship from the Gesellschaft für Informatik**.

publications in peer-reviewed proceedings	35	incl. flagship and excellent conferences (CORE rank: A*/A) in computer science, such as the <i>International Conference on Software Engineering (ICSE)</i> , the <i>International Conference on Modularity</i> or <i>IEEE TrustCom</i>
publications in peer-reviewed journals	15	incl. top-tier journals in physics, computer science, information science and data science, such as <i>Physical Review Letters</i> , <i>Nature Communications</i> , <i>Empirical Software Engineering</i> or <i>Scientometrics</i>
citations (Google Scholar)	676	incl. recognition from works in first-class interdisciplinary outlets like <i>PNAS</i> , <i>Nature Communications</i> , <i>Science Advances</i> and <i>Palgrave Communications</i> , prestigious physics journals like <i>Physical Review Letters</i> or <i>Physical Review X</i> , premiere computer science venues like the <i>International Conf. on Software Engineering (ICSE)</i> or <i>IEEE Trans. on Software Engineering</i> , and leading life science journals like <i>Pharmacology & Therapeutics</i> , <i>PLoS ONE</i> or <i>Molecular Biology and Evolution</i>
invited talks	37	incl. invitations from international top institutions like <i>Harvard Medical School</i> , <i>Northeastern University</i> , <i>KTH Stockholm</i> , <i>Sorbonne University</i> , <i>Leibniz Institute for the Social Sciences (GESIS)</i> , <i>KIT</i> , <i>Eötvös Loránd University Budapest</i> or <i>National University of Singapore</i> , flagship conferences like the <i>International Conference on Software Engineering</i> and companies like <i>Google</i> , <i>IBM</i> and <i>DATEV</i>
review assignments (2012-2016)	135	incl. assignments from international top venues like <i>PNAS</i> , <i>Nature Communications</i> , <i>Palgrave Communications</i> , <i>WWW</i> , <i>ICWSM</i> , <i>Journal of Informetrics</i> , <i>Physical Review X</i> , <i>Physical Review Letters</i> and <i>IEEE Software</i>
graduate students supervised	17	incl. students with different disciplinary backgrounds in <i>computer science and mathematics</i> , <i>social sciences</i> , <i>physics</i> and <i>electrical engineering</i>
workshops and conferences co-chaired	20	incl. international conferences with more than 100 participants

ACADEMIC DEGREES

Doctorate Degree (Dr. rer. nat.) **May 27 2011**

- Department of Computer Science, University of Trier, Germany
- Grade: **Summa cum laude**
- Dissertation: *Harnessing Complex Structures and Collective Behavior in Large Networked Computing Systems*
- Thesis advisor: **Prof. Dr. Peter Sturm**, University of Trier, Germany

Diploma in Computer Science (Minor in Mathematics) **Nov. 10 2005**

- Department of Computer Science, University of Trier, Germany
- Grade: **Mit Auszeichnung** (With Distinction)
- Thesis: *A reimplementatation of the CORBA-based Event Monitoring Service for the ATLAS LHC Experiment at CERN*

PROFESSIONAL EXPERIENCE

Karlsruhe Institute of Technology (KIT), Germany **April – Aug. 2016**

Vertretung W3-Professur *Angewandte Informatik*, AIFB, Fakultät für Wirtschaftswissenschaften

ETH Zürich, Switzerland **Sept. 2011 – present**

Lecturer at the Chair of Systems Design

Eötvös Loránd University Budapest, Hungary **July – Aug. 2011**

Visiting Researcher in the Biological Physics group (Prof. Dr. Tamás Vicsek)

University of Trier, Germany **Jan. 2006 – June 2011**

Research Assistant at Chair of Systems Software and Distributed Systems

CERN, Geneva, Switzerland **June – Sept. 2004**

Full-time Summer Student in the ATLAS Trigger and Data Acquisition Group

PROFESSIONAL TRAINING

Project Management Leadership Skills **Oct. 2016**

- Professional training for research project leaders provided by ETH Zürich (2.5 days)

Windows Azure for Research **Nov. 2013**

- Professional training on Cloud Computing for scientific research by Microsoft Research (2 days)

AWARDS AND FELLOWSHIPS

- **Journal First Invitation** at ICSE 2016 **May 2016**

Based on our work on the Ringelmann effect in software development teams, I received an invitation for a *Journal First Presentation* at the flagship software engineering conference ICSE.

- **Juniorfellowship** of Gesellschaft für Informatik (GI e.V.) **Oct. 2014**

Following a two-stage selection process, I was awarded one out of five Juniorfellowships for outstanding achievements in computer science. Award certificate (in German) available at:

<https://www.gi.de/fileadmin/redaktion/Personen/Junior-Fellows/GI-Juniorfellow2014-Scholtes.pdf>

- **Best Paper Award** at IEEE TrustCom'12 **June 2012**

Our work on a personalized recommender system based on random walks in social networks was awarded as the **best out of 100 papers** at IEEE TrustCom'12 (acceptance rate: 28 %).

- **Scholarship** of the German National Academic Foundation **2003 – 2005**

(*Studienstiftung des Deutschen Volkes*)

MEMBERSHIPS IN SCIENTIFIC SOCIETIES

- **Konrad Zuse Gesellschaft** **since 2013**
- **Gesellschaft für Informatik** (GI e.V.) **since 2001**