

# H. Gül Çalıklı

Curriculum Vitae

25.12.2024



## contact information

School of Computing  
Science,  
University of Glasgow,  
Glasgow  
G12 8QQ  
Scotland, UK

handangul.calikli@  
glasgow.ac.uk;

gulcalikli@github.io

## orcid

0000-0003-4578-1747

## publication indexes

<http://GoogleScholar>  
<http://DBLP>

## languages

Turkish native  
English: fluent  
Swedish: conver-  
sational  
German: can read  
with dictionary

## professional memberships

ACM

## EDUCATION

- 2012 **Ph.D.** in Computer Engineering, **Boğaziçi University, Turkey**  
Thesis: “Improving Performance of Defect Predictors Using Confirmation Bias Metrics”
- 2004 **M.Sc.** in Computer Engineering, **Boğaziçi University, Turkey**  
Thesis: “A Policy Specification language for an 802.11 WLAN with Enhanced Security Network”
- 2000 **B.Sc.** in Mechanical Engineering, **Boğaziçi University, Turkey**

## PROFESSIONAL APPOINTMENTS

- 09.2021–now **lecturer, University of Glasgow, Scotland, UK**  
Lecturer (Assistant Professor) in Software Engineering (SE) at the School of Computing Science.
- 09.2020–09.2021 **senior researcher, University of Zurich, Switzerland**  
Research in empirical Software Engineering with focus on human aspects, data analytics and experimentation in the context of code review.
- 09.2016–09.2020 **universitetslektor, University of Gothenburg, Sweden**  
Research in empirical SE with focus on human aspects. Taught 6 SE courses & 1 basic Computer Science (CS) course with 9 instances in total. Supervised B.Sc., M.Sc. and Ph.D. students.
- 10.2013–09.2016 **postdoc fellow, The Open University, UK**  
Worked in the EPSRC funded “Privacy Dynamics” project for the design & development of privacy-aware software using theories from social psychology & logic based Machine Learning (ML).
- 08.2012–09.2013 **postdoc fellow, Ryerson University, Canada**  
Worked at Data Science Lab with focus on data analytics and ML in SE & human cognitive aspects.
- 01.2003–06.2012 **research assistant, Boğaziçi University, Turkey**  
Worked as a teaching assistant of 13 CS courses and at industrial research projects in collaboration with IBM Canada, Logo Software, Turkcell and IBTech.
- 09.2000–12.2002 **R&D engineer, Alarko-Carrier, Turkey**  
Developed software to modify submersible pump shafts’ and burner fans’ designs.

## AWARDS

|      |   |               |
|------|---|---------------|
| 2023 | <b>Distinguished Reviewer Award</b>   | ICSME 2023    |
| 2022 | <b>ACM SIGSOFT Distinguished Paper Award</b><br>“First Come First Served: The Impact of File Position on Code Review”                       | ESEC/FSE 2022 |
| 2022 | <b>Distinguished Reviewer Award</b>   | ICPC 2022     |
| 2021 | <b>ACM SIGSOFT Distinguished Paper Award</b><br>“Why don’t Developers Detect Improper Input Validation?”;<br>DROP TABLE Papers; –”          | ICSE 2021     |
| 2020 | <b>ACM SIGSOFT Distinguished Artifact Award</b><br>“Primers or Reminders? The Effects of Existing Review Comments on Code Review”           | ICSE 2020     |
| 2013 | <b>Best Paper Award, Industry Track, (First Author)</b><br>“Towards a Metrics Suite Proposal to Quantify Confirmation Biases of Developers” | ESEM 2013     |

## GRANTS & FUNDING

|      |   |                  |
|------|---|------------------|
| 2018 | <b>Chalmers Area of Advance SEED Funding</b><br>“SEFIS: Software Engineering for Intelligent Systems”           | PI, 100k SEK     |
| 2017 | <b>Chalmers SWC Project# 3: Metrics</b><br>“Continuous Product & Organisational Performance”<br>(Sprints 13-14) | Co-PI, ~120k SEK |
| 2016 | <b>Chalmers SWC Project# 1: Metrics</b><br>“Implications of Continuous Deployment” (Sprint 12)                  | Co-PI, ~60k SEK  |

## INVITED TALKS

|      |  |                     |
|------|--|---------------------|
| 2023 | <b>A Tale of Two Experiments: Is Security Developers’ Concern during Code Reviews?</b><br>Edinburgh Napier University      | Edinburgh, UK       |
| 2020 | <b>Advancing Research on Cognition in Software Engineering</b><br>University of Zurich                                     | Zurich, Switzerland |
| 2019 | <b>Software Engineering for Intelligent Systems</b><br>Chalmers ICT Area of Advance  | Göteborg, Sweden    |
| 2017 | <b>A Portfolio of Quality Metrics for Continuous Deployment</b><br>Software Center Breakout Session                        | Göteborg, Sweden    |
| 2016 | <b>Privacy Dynamics: Towards Privacy-aware Software</b><br>Dept. of Computer Engineering, Bilgi University                 | Istanbul, Turkey    |
| 2014 | <b>Elicitation of Privacy Requirements Using Personas</b><br>Department of Computing & Informatics, Bournemouth University | Dorset, UK          |
| 2014 | <b>Modelling Human Aspects in Software Engineering</b><br>Department of Computer Engineering, Boğaziçi University          | Istanbul, Turkey    |
| 2013 | <b>Confirmatory Behaviour of Software Developers</b>   |                     |

|      |  |                  |
|------|--|------------------|
|      | Department of Computer Engineering, Gebze Technical University   | Kocaeli, Turkey  |
| 2013 | <b>Confirmation Bias in Software Engineering</b><br>Department of Computer Science, York University                        | Toronto, Canada  |
| 2012 | <b>Research 2.0: Confirmation Bias as a Human Aspect in Software Engineering</b><br>Microsoft Research (video of the talk) | Redmond, WA, USA |
| 2010 | <b>Prediction of Defect Density by Using Confirmation Bias Metrics</b><br>Logo Software                                    | Kocaeli, Turkey  |
| 2009 | <b>Confirmatory Biases of Developers and Testers</b><br>Turkcell   | Kocaeli, Turkey  |

## PROFESSIONAL SERVICE

### conference organisation committees

|             |   |
|-------------|---|
| <b>ICPC</b> | Program Committee co-Chair (ERA Track), IEEE/ACM International Conference on Program Comprehension, 2024. |
| <b>ETRA</b> | Local co-Chair, ACM Conference on Eye Tracking Research and Applications, 2024.                           |
| <b>SPLC</b> | Conference Chair, Systems and Software Product Lines Conference, 2018.                                    |

### conference program committees

|               |  |
|---------------|--|
| <b>ICSE</b>   | PC Member, IEEE/ACM International Conference on Software Engineering, 2025; PC member (Demo Track), 2024.                          |
| <b>ASE</b>    | PC Member, IEEE/ACM International Conference on Automated Software Engineering, 2023 & 2022; PC member (Tool Demos Track), 2021.   |
| <b>FSE</b>    | PC Member (Demo Track), ACM International Conference on the Foundations of Software Engineering, 2024.                             |
| <b>ICPC</b>   | PC Member, IEEE/ACM International Conference on Program Comprehension, 2022–2025.  |
| <b>MSR</b>    | PC Member, International Conference on Mining Software Repositories, 2022–2025.  |
| <b>ICSME</b>  | PC Member, IEEE International Conference on Software Maintenance and Evolution, 2023.  |
| <b>EASE</b>   | PC Member (Visions & Emerging Results Track), International Conference on Evaluation and Assessment in Software Engineering, 2022. |
| <b>CSCW</b>   | Associate Chair, ACM Conference on Computer Supported Cooperative Work and Social Computing, 2021.                                 |
| <b>QUATIC</b> | PC member, International Conference on the Quality of Information and Communications, 2020.  |
| <b>SANER</b>  | PC member, IEEE International Conference on the Software Evolution and Re-engineering, 2017.                                       |

**CSMR-WCRE** PC member (ERA Track), Conference on Software Maintenance, Re-engineering and Reverse Engineering, 2014.

### **conference paper reviewing as a reviewer/sub-reviewer**

**CSCW** ACM Conference on Computer Supported Cooperative Work and Social Computing; 2019, 2020.

**ICSM** International Conference on Software Maintenance; 2013.

**ESEM** International Symposium on Empirical Software Engineering and Measurement; 2010, 2011, 2012, 2013.

**PROMISE** International Symposium on Predictive Models in Software Engineering; 2010, 2011, 2012, 2013.

**SEAA** EUROMICRO Conference on Software Engineering and Applications; 2013.

**ICSE** International Conference on Software Engineering; 2011, 2012.

### **journal reviewing**

**TSE** IEEE Transactions on Software Engineering, IEEE

**TOSEM** IEEE Transactions on Software Engineering and Methodology, ACM

**IEEE Software (Special Issues)** Diversity Crisis in Software Development; Green Software; Sentiment and Emotion in Software Engineering, IEEE

**EMSE** Empirical Software Engineering, Springer

**JSS** Journal of Software and Systems, Elsevier

**SQJ** Software Quality Journal, Springer

**IET Journal** Institution of Software Engineering and Technology, IET

**Transactions on Reliability** IEEE Transactions on Reliability, IEEE

### **editorial assignments**

**Guest Editor** IEEE Transactions on Industrial Informatics, Special Issue on Engineering Big Data Analytics Platforms on Internet of Things, 14(2):744-747, 2018.

### **review for funding agencies**

**EPSRC Member of Peer Review College.** EPSRC is a British Research Council that provides government funding for grants to undertake research and postgraduate degrees in engineering and the physical sciences, mainly to universities in the United Kingdom (UK).

## TEACHING

### teaching at the University of Glasgow, United Kingdom

**Software Engineering (IT)** (Spring 2022, Academic Years 2022-2023, 2023-2024 & 2024-2025,  $\approx$  300 students)

I am the coordinator of this graduate-level course offered mainly to the students of Information Technology Masters Program. The course is taught over two semesters: During the Fall (first) semester the course introduces students to the processes behind building software (e.g., Are we building the right thing? How to manage a project), covering agile software development practices, including Lean Software Development, Scrum and Kanban. The topics covered during the Spring (second) semester comprise good coding practices (e.g., reducing coupling, improving cohesion, error handling, safe classes and packages), unit testing and design patterns (e.g., singleton, iterator, composite, creational patterns).

**Professional Software Development and Team Project** (Academic Years 2021-2022, 2022-2023, 2023-2024 & 2024-2025,  $\approx$  300 students)

The course, which is also taught throughout both semesters of an academic year (Fall and Spring semesters), introduces the students to modern software development methods and techniques for building and maintaining large systems. The course is delivered according to the Flipped Classroom Teaching Model and aims to: (1) prepare students to apply modern software development methods and techniques presented to them in the context of an extended group-based software development exercise; and (2) make the students aware of the professional, social and ethical dimensions of software development. My responsibilities in this course comprise supervising  $\sim$ 10 project teams, marking their project artifacts (e.g., GitLab repositories, dissertations), and marking exam papers (*course coordinator*: Dr. Tim Storer).

### teaching at the University of Gothenburg, Sweden

**Data Structures and Algorithms** (Spring 2018-2020,  $\approx$  85 students)

Students learn about algorithm complexity, recursion, sorting algorithms, and data structures (e.g., linked lists) and abstract data types (e.g., stacks and queues). In Spring 2018 term, I designed the course from scratch. In Spring 2019 term, I redesigned this course introducing three more course components besides lectures so that this instance consisted of the following course components: (1) Lectures, (2) hands-on programming sessions, (3) problem sessions and (4) supervision sessions. I prepared all course material of each component from scratch.

**Mini Project Team Programming** (Fall 2019,  $\approx$  85 students)

Students learn about project management and human aspects (e.g., group dynamics, cognitive bias-es during lectures, that are complemented by hands-on exercises done in class. Students put theory they learn during lectures into practice while working on a software development project in groups.

**Product, Project and People Management** (Fall 2016-2017,  $\approx$  65 students)

Students learn about software project management (e.g., scheduling, effort and cost estimation, risk management) and human aspects.

### **Mini Project: Systems Development** (Spring 2018, ≈ 50 students)

This is the updated version of the “Project: Systems Development” course (see below) in the new curriculum where the scope of the autonomous mini-car system to be developed is delimited to fewer features.

### **Change Management in Software Development Organisations** (Fall 2016-2017, ≈ 30 students)

This course focuses on explanatory theories on organizational change and change management in software industry.

### **Project: Systems Development** (Spring 2017, ≈ 65 students)

This is a software development project course, which employs problem-based learning technique. Students work in groups developing a system for autonomous mini-cars and develop skills in requirements analysis, software design, quality analysis, programming and testing.

### **Project: Changing Software Development Process** (Fall 2017, ≈ 15 students)

This is an elective course where students are expected to conduct an exploratory research study in industrial settings. This instance continue from the previous with two additional tutorials that I prepared for data collection and analysis techniques.

## **teaching at Ryerson University, Canada**

### **Business Information Systems 1**(Fall 2012, ≈ 60 students)

This course was offered as a service course for students from various programs at the university.

### **Applied Research Methods** (Fall 2012, ≈ 30 students, **M.Sc./Ph.D.** level course)

Students learn about qualitative and quantitative research methods. In this course, I lectured on data collection methods in field studies (e.g., interviews, questionnaires, shadowing, observation synchronized shadowing, participant observation, think aloud protocols), statistical analysis techniques, qualitative measures and construct validity.

## **TEACHING EDUCATION**

### **pedagogy courses completed (University of Glasgow, UK)**

#### 2023 **Creative Pedagogies for Active Learning** (EDUC5985)

This course provides with and helps explore the ways in which lecturers' pedagogy can be adapted for new and existing learning environments to enhance engagement and activity in teaching.

#### 2023 **Course Design** (EDUC5983)

This course teaches how to design a course in lecturers' subject or discipline in a supportive environment. The course covers the following: (1) developing a rationale for introducing a new course; (2) designing an aligned course; (3) considering inclusive curricula; (4) including assessment and feedback that enhances your students' learning and (5) developing learning activities.

2022 **Assessments and Feedback** (EDUC5984)

This course provides with a structured approach to critique and enhance university teachers' assessment practices through engaging with the literature and consideration of the context of the taught discipline. The course also addresses issues such as plagiarism, providing useful feedback and a variety of assessment types.

**pedagogy courses completed (University of Gothenburg, Sweden)**

2019 **Supervision in Postgraduate Education** (HPE201), University of Gothenburg

This course discusses the context of the postgraduate programme, its organization and conditions as well as various research environments and supervision cultures. This course also covers every day practice and ethical dilemmas of supervision of doctoral students. Supervisor's responsibility for documentation, planning, and follow-up of the doctoral work and supervisor's role as a mentor into the science community are also discussed.

2018 **Teaching and Learning in Higher Education 1: Applied Analysis** (HPE103)

This course aims to enhance knowledge and ability to analyse, reflect, discuss and design a pedagogical development piece of work on the basis of science and proven experience.

2017 **Teaching and Learning in Higher Education 2: Pedagogy at the Faculty of Science** (HPE102)

This course teaches how to design courses that effectively teaches students to think like a scientist. The course teaches to use backward design to plan a course providing a tool box of examples of active teaching and assessment methods.

2017 **Teaching and Learning in Higher Education 1: Basic Course** (HPE101)

This foundational course offers an introduction to learning theories, teaching methods and student learning in higher education.

**STUDENT SUPERVISION & MENTORING**

starting on Jan 2025 **Yasmine Elfares (Ph.D. Student)**, University of Glasgow, UK  
"Using Eye Tracking to Improve Software Developers' (Human-Human & Human-AI) Pair Programming Experiences"

My Role: Main Supervisor

Co-supervisor: Dr. Mohamed Khamis

2024-ongoing **Isak Bosman (Ph.D. Student)**, University of Glasgow, UK

"Distilling Large Language Models for Q&A Tasks and Code Generation"

Main Supervisor: Dr. Debasis Ganguly

My Role: co-supervisor

2024-ongoing **Satwik Ghanta (Ph.D. Student)**, University of Glasgow, UK

"Introducing Sustainability into Software Engineering Teams: Sustainability Mindsets, Practice, and Culture"

Jointly supervised with Dr. Peggy Gregory

- 2018-ongoing      **Wardah Mahmood (Ph.D. Student)**, University of Gothenburg, Sweden  
“Software Product Line Engineering and Variability Management”  
Main Supervisor: Prof. Dr. Thorsten Berger  
My Role: co-supervisor
- 2021-ongoing      **Kelsey Collington (Ph.D. Student)**, University of Glasgow, UK  
“Towards Human-in-the-loop AI Intensive Cyberphysical Systems”  
Main Supervisor: Prof. Dr. Dimitrios Pezaros  
My Role: co-supervisor
- 2016-2021        **Katja Tuma (Ph.D. Student)**, University of Gothenburg, Sweden  
“Efficiency and Automation in Threat Analysis of Software Systems”  
Main Supervisor: Prof. Dr. Riccardo Scandariato  
My Role: co-supervisor
- 2016-2021        **Jacob Krüger (Ph.D. Student)**, Otto Von Guericke University, Germany  
“Feature Oriented Software Evolution and Human Factors”  
My Role: mentor
- 2025 (*ongoing*)    **Alex Chudic (M.Sci. student)**, University of Glasgow, UK  
“Automated Test Suite Enhancement Using Large Language Models”
- 2025 (*ongoing*)    **Ishita Narsiker (M.Sci. student)**, University of Glasgow, UK  
“Exploring Cognitive Biases in Software Effort Estimation: Comparing Human Estimators with Large Language Models”
- 2024              **Alex Chudic (B.Sc. student)**, University of Glasgow, UK  
“Assessing Large Language Models’ Code Refactoring Skills”
- 2023              **Donald S. MacKenzie (B.Sc. student)**, University of Glasgow, UK  
“Analyzing GitHub Pull Requests to Investigate Developers’ Cognitive Biases during Code Review”
- 2023              **Cheuk Yeung Sophia Chung (B.Sc. student)**, University of Glasgow, UK  
“Investigating How Developers Engineer Test Cases and their Cognitive Biases: An Observational Study”
- 2023              **Zhe Yang (M.Sc. student)**, University of Glasgow, UK  
“SafeCode: A Real-Time Security Checking VSCode Plugin for JavaScript Developers”
- 2023              **Hao Ding (M.Sc. student)**, University of Glasgow, UK  
“Automated Identification of Issue Categories in Code Review Comments”



- 2023 **Gong Qiao (M.Sc. student), University of Glasgow, UK**  
 “Automated Unit test Generation for C++ using Large Language Models (LLMs)”
- 2023 **Bengxuan Zhao (M.Sc. student), University of Glasgow, UK**  
 “Assessing GitHub CoPilot’s Code Explanation Capabilities”
- 2023 **Vignesh Suvarna (M.Sc. student), University of Glasgow, UK**  
 “Comparative Analysis of NLP and LLM-based Chatbots”
- 2022 **Yihan Liao (M.Sc. student), University of Glasgow, UK**  
 “SafeTweet, a Secure Social Network with Sensitive Information Detection”
- 2020 **Mohannad Alahdab (M.Sc. student), University of Gothenburg, Sweden**  
 “Empirical Analysis of Hidden Technical Debt Patterns in Machine Learning Software”
- 2017 **Mohammed Al-Eryani and Emil Baldebo (B.Sc. students), University of Gothenburg, Sweden**  
 “Effects of Automated Competency Evaluation on Software Engineers’ Emotions and Motivation: A Case Study”

## PhD EXAMINATION COMMITTEES

- 2021 Mohamed Alhamed, “On the Application of Artificial Intelligence and Human Computation to the Automation of Agile Software Task Effort Estimation,” University of Glasgow, UK.
- 2019 Ilaah Salman, ”The Effect of Confirmation Bias and Time Pressure on Software Testing”, Information Technology and Electrical Engineering,” University of Oulu, Finland.

## ADMINISTRATIVE DUTIES

- 2024-ongoing **MSc Development Project for IT+ Coordinator (University of Glasgow, UK)**  
 MSc Development Project is a compulsory component of the “The Masters in Information Technology” an intensive, practically oriented taught postgraduate programme which aims to equip students with advanced IT skills. Every academic year,  $\approx 300$  students work on a software development project during June-August. My responsibilities include conducting orientation sessions for students, allocating students to supervisors, developing robust marking criteria to facilitate students’ learning and prevent plagiarism in the era of LLMs (Large Language Models), preparing marking templates to ensure transparency and fairness, recruiting & onboarding external supervisors and allocating MSc project artifacts to markers.

- 2023-ongoing **Career Liaison Officer (University of Glasgow, UK)**  
Responsibilities include organising career events for students in collaboration with companies, including lectures on CV preparation and assessment centers, and CV Clinics. During CV Clinics students get feedback from software practitioners and Human Resources professionals from various companies on how to improve their CVs.
- 2017-2018 **B.Sc. Thesis Examination Committee Member (University of Gothenburg, Sweden)**  
Responsibilities included contributing to the preparation of templates and evaluation criteria for proposals, progress reports and final thesis reports, as well as evaluating proposals and progress reports and the final reports.

## REFERENCES

### **prof. dr. Alberto Bacchelli**

Role: Associate Professor  
Affiliation: University of Zurich  
Address: Binzmühlstrasse 14, 8050 Zurich, Switzerland  
Email: bacchelli@ifi.uzh.ch  
Web: <https://www.ifi.uzh.ch/en/zest/team/bacchelli.html>  
Phone: +41 44 635 75 39

### **prof. dr. Thorsten Berger**

Role: Professor  
Affiliation: Ruhr University Bochum; Chalmers & University of Gothenburg  
Address: Universitätsstrasse 150 ID-Gebäude, Postfach 11 44801 Bochum, Germany; Hörselgängen 11, Gothenburg, Sweden)  
Email: thorsten.berger@rub.de; thorsten.berger@chalmers.se  
Web: <http://www.cse.chalmers.se/~bergert/>  
Phone: (+49)(0)234 / 32 - 25975; +46 31 772 6075

### **prof. dr. Bashar Nuseibeh**

Role: Professor  
Affiliation: The Open University  
Address: Walton Hall, Kents Hill, Milton Keynes MK7 6AA, United Kingdom  
Email: bashar.nuseibeh@open.ac.uk  
Web: <http://www.open.ac.uk/people/ban25>  
Phone: +44 1908-655185

### **prof. dr. Andy Zaidman**

Role: Professor  
Affiliation: Delft University of Technology  
Address: Van Mourik Broekmanweg 6, 2628 XE Delft, The Netherlands  
Email: a.e.zaidman@tudelft.nl  
Web: <https://azaidman.github.io>

Phone: +31-15-2784385

## prof. dr. Michel Chaudron

Role: Professor

Affiliation: Eindhoven University of Technology

Address: Groene loper 5, 5612 AZ Eindhoven, Netherlands

Email: [m.r.v.chaudron@tue.nl](mailto:m.r.v.chaudron@tue.nl)

Web: <https://research.tue.nl/en/persons/michel-rv-chaudron>

Phone: +31 402479111

## PUBLICATIONS

### peer-reviewed journals

- J10** Wardah Mahmood, **Gül Çalıklı**, Daniel Strüber, Ralf Lämmel, Muklebai Mukelebai and Thorsten Berger: Virtual Platform: Effective and Seamless Variability Management for Software Systems. *IEEE Transactions on Software Engineering*, vol:50, no:11, 2024.
- J9** Jacob Krüger, **Gül Çalıklı**, Dmitri Bershadskyy, Siegmarr Otto, Sarah Zabel and Robert Heyer: Guidelines for Using Financial Incentives in Software Engineering Experimentation. *EMSE Journal*, vol:29, Article 135,2024.
- J8** Dmitri Bershadskyy, Jacob Krüger, **Gül Çalıklı**, Jannik Greif, Siegmarr Otto, Sarah Zabel and Robert Heyer: A Laboratory Experiment on Using Different Financial-Incentivization Schemes in Software-Engineering Experimentation. *PeerJ Computer Science Journal*, 2024 (accepted).
- J7** Pavlína Wurzel Gonçalves, **Gül Çalıklı**, Alexanver Serebrenik, Alberto Bacchelli: Interpersonal Conflicts during Code Review: Developers' Experience and Practices. *PACM Journal*, 7, CSCW1, Article 38 (2023).
- J6** Pavlína Wurzel Gonçalves, **Gül Çalıklı**, Alberto Bacchelli: Interpersonal Conflicts during Code Review: Developers' Experience and Practices. *PACM Journal*, 6, CSCW1, Article 98 (2022).
- J5** Katja Tuma, **Gül Çalıklı**, Riccardo Scandariato: Threat analysis of software systems: A systematic literature review. *Journal of Systems and Software* 144: 275-294 (2018).
- J4** Jan-Philipp Steghöfer, Håkan Burden, Regina Hebig, **Gül Çalıklı**, Robert Feldt, Imed Hammuda, Jennifer Horkoff, Eric Knauss, Grisca Liebel: Involving External Stakeholders in Project Courses. *ACM Transactions on Computing Education TOCE* 18(2): 8:1-8:32 (2018).
- J3** Blaine Price, Avelie Stuart, **Gül Çalıklı**, Ciaran McCormick, Vikram Mehta, Luke Hutton, Arosha Bandara, Mark Levine, Bashar Nuseibeh: Logging you, Logging me: A Replicable Study of Privacy and Sharing Behaviour in Groups of Visual Lifeloggers. *IMWUT* 1(2): 22:1-22:18 (2017).

- J2** **Gül Çalıklı** and Ayşe Bener. Empirical analysis of factors affecting confirmation bias levels of software engineers. *Software Quality Journal* 23(4): 695-722 (2015).
- J1** **Gül Çalıklı** and Ayşe Bener. Influence of confirmation biases of developers on software quality: an empirical study. *Software Quality Journal* 21(2): 377-416 (2013).

### peer-reviewed conference publications

- C21** Enrico Fregnan, Larissa Braz, Marco D'Ámbros, **Gül Çalıklı**, Alberto Bacchelli: First Come First Served: the Impact of File Position on Code Review. ESEC/FSE 2022. (*ACM SigSoft Distinguished Paper Award*).
- C20** Larissa Braz, Christian Aeberhard, **Gül Çalıklı**, Alberto Bacchelli: Less is More: Supporting Developers in Vulnerability Detection during Code Review. ICSE2022.
- C19** Larissa Braz, Enrico Fregnan, **Gül Çalıklı**, Alberto Bacchelli: Why don't Developers Detect Improper Input Validation? ; DROP TABLE PAPERS; --. ICSE2021. (*ACM SigSoft Distinguished Paper Award*).
- C18** Jacob Krüger, **Gül Çalıklı**, Thorsten Berger, Thomas Leich: How Explicit Feature Traces Did Not Impact Developers' Memory. SANER2021 (RENE Track) (accepted).
- C17** Davide Spadini, **Gül Çalıklı**, Alberto Bacchelli: Primers or Reminders? The Effects of Existing Comments on Code Review. ICSE2020. (*ACM SigSoft Distinguished Artifact Award*)
- C16** Jacob Krüger, **Gül Çalıklı**, Thorsten Berger, Thomas Leich, Gunter Saake: Effects of explicit feature traceability on program comprehension. ESEC/SIGSOFT FSE 2019: 338-349.
- C15** Mohannad Alahdab, **Gül Çalıklı**: Empirical Analysis of Hidden Technical Debt Patterns in Machine Machine Learning Software. PROFES 2019: 195-202.
- C14** Rashidah Kasauli, Eric Knauss, Benjamin Kanagwa, Agneta Nilsson, **Gül Çalıklı**: Safety-Critical Systems and Agile Development: A Mapping Study. SEAA 2018: 470-477.
- W3** **Gül Çalıklı**, Mohammed Al-Eryani, Emil Baldebo, Jennifer Horkoff, Alexander Ask: Effects of automated competency evaluation on software engineers' emotions and motivation: a case study. SEmotion@ICSE 2018: 44-50.
- C13** **Gül Çalıklı**, Miroslaw Staron, Wilhelm Meding: Measure early and decide fast: Transforming quality management and measurement to continuous deployment. ICSSP 2018: 51-60.
- C12** Yasmin Rafiq, Luke Dickens, Alessandra Russo, Arosha K. Bandara, Mu Yang, Avelie Stuart, Mark Levine, **Gül Çalıklı**, Blaine A. Price, Bashar Nuseibeh: Learning to share: engineering adaptive decision-support for online social networks. ASE 2017: 280-285.

- C11** **Gül Çalıklı**, Mark Law, Arosha K. Bandara, Alessandra Russo, Luke Dickens, Blaine A. Price, Avelie Stuart, Mark Levine, Bashar Nuseibeh: Privacy dynamics: learning privacy norms for social software. SEAMS@ICSE 2016: 47-56.
- W2** **Gül Çalıklı**, Blaine A. Price, Mads Schaarup Andersen, Bashar Nuseibeh, Arosha K. Bandara: Personal informatics for non-geeks: lessons learned from ordinary people. UbiComp Adjunct 2014: 683-686.
- C10** **Gül Çalıklı**, Ayşe Bener, Turgay Aytaç, Ovüncü Bozcan: Towards a Metric Suite Proposal to Quantify Confirmation Biases of Developers. ESEM 2013: 363-372. (*Best Industry Paper Award*)
- C9** **Gül Çalıklı**, Ayşe Bener: An algorithmic approach to missing data problem in modeling human aspects in software development. PROMISE 2013: 10:1-10:10.
- C8** **Gül Çalıklı**, Ayşe Bener: The Impact of Confirmation Bias on the Release-based Defect Prediction of Developer Groups. SEKE 2013: 461-466.
- C7** **Gül Çalıklı**, Ayşe Bener, Bora Çağlayan, Ayşe Tosun Mısırlı: Modeling Human Aspects to Enhance Software Quality Management. ICIS 2012.
- C6** Bora Çağlayan, Ayşe Tosun Mısırlı, **Gül Çalıklı**, Ayşe Bener, Turgay Aytaç, Burak Turhan: Dione: an integrated measurement and defect prediction solution. SIGSOFT FSE 2012: 20.
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