

## Dr. Birgit Penzenstadler

Dipl.-Inf. (Univ.), Assistant Professor

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Date of birth: 09/09/1981 in Erding, Germany

### Positions

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2015-now	Assistant professor	California State University Long Beach
2013-2015	Postdoctoral researcher	University of California, Irvine
2012-2013	Lecturer (“Akademischer Rat”)	Technische Universität München
2011-2012	Postdoctoral researcher	Technische Universität München

### Education

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2012-2015	Habilitation	Environmental Sustainability in Software Engineering at Technische Universität München & University of California, Irvine
2006-2011	Doctorate	Dr. rer. nat. (magna cum laude) at Technische Universität München on “DeSyRe – Decomposition of Systems and their Requirements”
2001-2006	University of Passau	Diploma (MSc equivalent) in Informatics, grade 1,1 (equiv. to A), minor subject Media & Design

### Skills Enhancement

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2007-2012	ProLehre Advanced Teaching Certificate	Curriculum for teaching at university, including seminars on didactics, workshops on examination and consulting, personal training and feedback
2007-2009	TUM Graduate School Methods	„Centre for Doctoral Studies in Informatics and its Applications“ (CeDoSIA)
2006-2011	Soft skill seminars	Leadership, Project Management, Communication, Creativity methods, Rhetoric

### Awards & Scholarships

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2016	European Commission	Erasmus Mundus PERCCOM: scholarship for a stay abroad as guest lecturer
2015	Anita Borg Institute	Thelma Estrin Award for interdisciplinary research
2014	UC Irvine	Lecturer Professional Development Award
2010	European Commission	Erasmus Mundus COOPEN: scholarship for a stay abroad as visiting researcher
2006	Department of Informatics, UP	Faculty award for outstanding study achievements
2003-2006	Studienstiftung des deutschen Volkes e. V.	German National Academic Foundation Scholarship for “academically gifted” Summer academies & mentoring

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## Research Grants & Industry Funding

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2017	CSULB	Faculty Small Grant “Resilient Smart Gardens Showcase”
2016	SeeChange Institute	Industry grant as subcontractor for PG&E “Home Energy Management Systems”
2016	CSULB	Small Faculty Grant “Fortified Cards”
2016	Long Beach Water Department	“Computer Software Design Services for the Pipeline Inspection Pilot Study”
2015	NCWIT	Mini Grant “Extension Services for Undergraduate Programs”
2015	CSULB	Small Faculty Grant “A Toolkit for Software Engineering for Sustainability”
2013-2015	DFG (German Federal Research Foundation)	Project “EnviroSiSE: Environmental sustainability in software engineering” (24 months of postdoctoral research fellowship at UC Irvine)
2012-2013	Peter Pribilla Foundation	Project “InnoTracing: Capturing the messiness of innovation” (12 months) on creative processes and consequences for strategic management
2009-2012	Siemens AG	Project “ProdFlow” with Siemens CT on consulting methods for productivity; framework for method integration and consolidated service offers, (project lead in 2011)
2011	Deutsche Lufthansa AG	Project “RE Analysis & Optimization 2011” of TUM with Deutsche Lufthansa AG to analyse their current approach on requirements engineering elaboration and documentation
2010-2011	BMW AG	Project “FaDy” with BMW on requirements specification models; analysis of automotive needs and conceptualization of a tailored systems model (project lead)

## Further Contributed Projects

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2011-2013	ARAMiS	€432,376	BMBF research project on Automotive, Railway and Avionics in Multicore Systems, (project lead in work package “requirements engineering”)
2010-2012	ReForm	€169,320	DFG research project on requirements formalization; transformation of natural language requirements into usage behaviour models (project lead in 2012)
2010	RE Solution 6	€24,000	Project with Siemens M on requirements artefacts; pilot study for a tailored documentation model and respective methods
2009-2010	RE School	€85,000	Course concept and materials for requirements engineering at Cap Gemini Technology Services
2007-2009	REMsES	€416,702	Research project, funded by the German government, on requirements engineering and management for software-intensive embedded systems ( <a href="http://www.remses.org">http://www.remses.org</a> ) with the partners Daimler, Bosch, Universität Duisburg Essen, Validas; (project lead for 2 <sup>nd</sup> half)
2006-2009	SysRe	€60,000	Research project with Siemens VDO (Continental) on the systematic reuse of software artefacts (project lead)

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## Teaching

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Spring2018	ENGR 390 ICT for Sustainability	Assistant professor, CSULB
Spring2018	CECS 491a Software Engineering Project	Assistant professor, CSULB
Spring2018	CECS 542 Requirements Engineering	Assistant professor, CSULB
Fall 2017	CECS 491b Software Engineering Project	Assistant professor, CSULB
Fall 2017	CECS 543 Advanced Software Engineering	Assistant professor, CSULB
2017	Summer School: Software Engineering for Sustainability	Visiting lecturer, Lappeenranta University of Technology (LUT), Finland
Spring2017	CECS 491a Software Engineering Project	Assistant professor, CSULB
Spring2017	CECS 542 Requirements Engineering	Assistant professor, CSULB
2016/2017	UNIV 301 Sustainable livelihood and reconstruction in Nepal	Assistant professor, CSULB/Nepal
2016/2017	CECS 491b Software Engineering Project	Assistant professor, CSULB
2016/2017	CECS 343 Software Engineering	Assistant professor, CSULB
2015/2016	Block Course Software Engineering for Sustainability	Visiting lecturer, Lappeenranta University of Technology (LUT), Finland
2015/2016	CECS 491a Software Engineering Project	Assistant professor, CSULB
2015/2016	CECS 590 Requirements Engineering	Assistant professor, CSULB
2015/2016	UNIV 301 Sustainable livelihood and reconstruction in Nepal	Assistant professor, CSULB/Nepal
2015/2016	CECS 493a Web Development Project	Assistant professor, CSULB
2015/2016	CECS 543 Advanced Software Engineering	Assistant professor, CSULB
2014/2015	CECS 343 Software Engineering	Assistant professor, CSULB
2014/2015	CECS 590 Requirements Engineering	Assistant professor, CSULB
2013/2014	Requirements Engineering & Specification	Lecturer for graduate course, UC Irvine
2013/2014	Requirements Analysis & Engineering	Lecturer for undergraduate course, UC Irvine
2012/13	Requirements Engineering	Assistant teacher and (part-time) lecturer, TU Munich
2012	Requirements Engineering	Full lecture assignment at TU Munich (Elite Master program for Software Engineering)
	Requirements Engineering for ICT-Systems for Environmental Sustainability	MSc seminar, TU Munich
	Foundations in Empirical Software Engineering	BSc seminar, TU Munich
2011/12	Requirements Engineering for Green IT-Systems	MSc seminar at TU Munich
	Environmental Sustainability in Software Engineering	MSc seminar at the Universitat Politècnica de Catalunya (Barcelona, Spain)
	Requirements Engineering	Assistant teacher and (part-time) lecturer, TU Munich
2011	Sustainability in Informatics	Interdisciplinary seminar for BSc with interactive presentation sessions and conjoint publication, TU Munich
	Requirements Engineering	Assistant teacher and (part-time) lecturer, TU Munich
2010/11	Requirements Engineering	Assistant teacher and lecture & tutorial,

		<i>organization, TU Munich</i>
2010	Requirements Engineering	<i>Lecturer for seminar, Instituto Tecnológico de Costa Rica</i>
2010	Software Architecture in Depth	<i>Seminar for MSc with presentations and conjoint publication, organization</i>
	Automotive Software Engineering	<i>Assistant teacher and lecture &amp; tutorial organization, TU Munich</i>
2009/10	Requirements Engineering	<i>Assistant teacher and lecture &amp; tutorial organization, TU Munich</i>
2009	Automotive Software Engineering	<i>Assistant teacher and lecture &amp; tutorial organization, TU Munich</i>
2008	Automotive Software Engineering	<i>Assistant teacher and lecture &amp; tutorial organization, TU Munich</i>
2007	Automotive Software Engineering	<i>Assistant teacher and lecture organization, TU Munich</i>
2006/07	Fundamentals of software and systems development (Grundlagen der Programm- und Systementwicklung)	<i>Assistant teacher, TU Munich</i>

#### **Supervision** (only 1<sup>st</sup> supervisor)

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2017/2018	Portal for Open Science for Citizens	<i>Mathew Choi</i>	Bsc Honors, CSULB
2017/2018	Best Practice Patterns in CSR	<i>Germain Deroche</i>	MSc, LUT
2016/2017	User Interface Design, Database Connectivity, and Security in Fortified Cards	<i>Sayli Pradhan</i>	MSc, CSULB
2016/2017	Programming QR Code Scanner, Communicating Android Devices, and Unit Testing in Fortified Cards	<i>Aniket Patil</i>	MSc, CSULB
2016/2017	Laser Printhead Concept Design for a 3D Moving Platform	<i>Everardo Acosta</i>	MSc, CSULB
2015/2016	SE4S Toolkit Extension Project: Vision Diagramming tool – build your vision!	<i>Ramzi Raufdeen</i>	MSc, CSULB
	ProtoMaker three-dimensional CNC platform	<i>Darren Miles</i>	MSc, CSULB
	Weighting environmental impacts in software distribution systems	<i>Bertrand Ithurburn</i>	MSc, CSULB
2014	Cognatio – improving patient and doctor communication	<i>Joseph Mehrabi</i>	<i>Independent research study, UC Irvine</i>
2014	Calico – refactoring requirements for a collaborative drawing tool	<i>Christopher Arciniega</i>	<i>Independent research study, UC Irvine</i>
2013	A quality model for sustainability in software engineering	<i>Anshu Singh</i>	<i>Master's thesis, UC Irvine</i>
2012	Instantiating a Generic Sustainability Goal Model for a Software Development Company	<i>Susanne Klein</i>	<i>Master's thesis, TU Munich</i>
	Sustainability Aspects in Specifying a Car Sharing Platform	<i>Oliver Feldmann</i>	<i>Bachelor's thesis, TU Munich</i>
	Requirements Engineering	<i>Alejandra Rodríguez</i>	<i>Guided research, TU Munich</i>

	Support for environmental sustainability in specifying a car sharing platform	<i>Ilya Krasnov</i>	<i>Bachelor's thesis, TU Munich</i>
2011	Specification techniques for requirements for a feedback control system	<i>Benedikt Schultis</i>	<i>Master's thesis, TU Munich</i>
2010	Documentation method for a mechatronic system	<i>Samira Salman</i>	<i>Master's thesis, TU Munich</i>
2009	Mapping between requirements and design in mechatronic systems	<i>Andreas Györy</i>	<i>Master's thesis, TU Munich</i>

### **Coordination**

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2015-today	CECS 343 Introduction to Software Engineering CECS 491a & 491b Software Engineering Project CECS 543 Advanced Software Engineering	<i>Course coordinator</i>
2015/2016	CECS 542 Requirements Engineering UNIV 301 Sustainable livelihood and resilience in Nepal	<i>Course development</i>
2012	ProLehre "Multiplicator"	<i>2 Workshops on holding seminars for doctoral students who start as teaching assistants</i>
2010-2011	Coordinator of the MSc course „Automotive software engineering“	<i>Organization and administration of curriculum, study plans, and student admission</i>
2007-2011	Automotive Software Engineering	<i>Lecture organization with external lecturers by practitioners from industry</i>

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## Professional Activities

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Organization	<p><i>Intl. Workshop series Requirements Engineering for Sustainable Systems (Re4SuSy)</i></p> <p><i>Wonder Women Tech in Long Beach, July 2016: Co-organizer, CSULB relations, publicity</i></p> <p><i>Workshop on Engineering for Sustainable Software Systems at Informatik'16: Co-organizer</i></p> <p><i>M4SuS: 1st Intl WS on Modularity for Sustainable Systems 2016, Spain: Co-organizer</i></p> <p><i>24th Intl. Conf. on Requirements Eng.: Posters/Tool Demonstrations Co-Chair, Sept 2016</i></p> <p><i>Intl Workshop on Sustainable Software Systems Engineering (SSSE15) at the 13th IEEE Intl. Conf. on Dependable, Autonomic and Secure Computing, 2015, Liverpool, UK: Co-Organizer</i></p> <p><i>iConference Workshop Organizer "ICT for Sustainability", March 2015</i></p> <p><i>23rd Intl. Conf. on Requirements Engineering: Publicity Co-Chair, August 2015</i></p> <p><i>8th Intl. Workshop Req. Eng. Education &amp; Training (REET) at Intl. Conf. on RE'14: Co-Organizer</i></p> <p><i>Intl Conf. on Req. Eng. '14</i>                      <i>Publicity Co-Chair</i></p> <p><i>Intl Conf. ICT4S</i>                                      <i>Workshops Chair</i></p> <p><i>Intl Conf. REFSQ'14</i>                              <i>Program Co-Chair for Workshops</i></p> <p><i>Intl. Conf. RE 2013</i>                      <i>Program Co-Chair Posters &amp; Demos, Organizer of the 1<sup>st</sup> Working Session on a Requirements Engineering Body of Knowledge</i></p>
Program committee member	<p><i>Intl. Conf. ICSE 2017 Software Engineering in Society (SEIS) Track</i></p> <p><i>International Conference on ICT for Sustainability ICT4S 2016</i></p> <p><i>Intl. Workshop on Green Software GREENS 2016 at ICSE 2016</i></p> <p><i>24th Intl Working Conf. on Req. Eng.: Foundations for SW Quality REFSQ 2016 Posters &amp; Tool Demos</i></p> <p><i>3rd International Workshop on Emerging Ideas and Trends in Engineering of Cyber-Physical Systems</i></p> <p><i>24th Intl. Conf. on Requirements Engineering 2016</i></p> <p><i>20th Intl. Conf. Evaluation and Assessment in Software Engineering 2016</i></p> <p><i>Intl. Conf. ICSE 2016 Software Engineering in Society (SEIS) Track</i></p> <p><i>Intl. Conf. Working Conference on Requirements Engineering: Foundations for Software Quality 2016</i></p> <p><i>Intl. Workshop Sustainable Architecture: Global collaboration, Requirements, Analysis (SAGRA) at ECSCA</i></p> <p><i>Intl. Conf. on Req. Eng. 2015 Posters &amp; Demos</i></p> <p><i>Intl. Conf. on Req. Eng. 2015 Workshop on Empirical RE</i></p> <p><i>Intl. Workshop GlnSEng 2015 at the 10th International Conference on Global Software Engineering</i></p> <p><i>7th Intl Conference on Information Technologies in Environmental Engineering Conf. ICT4S 2015</i></p> <p><i>Intl. Workshop Green Software and Green Software Engineering GREENS, ICSE 2015</i></p> <p><i>5th International Workshop on Product LinE Approaches in Software Engineering (at ICSE'15)</i></p> <p><i>Intl. Computer Science Education Research Conference (CSERC) 2015</i></p> <p><i>Intl. Workshop "Modularity Approaches for Multiple Dimensions of Sustainability" at Modularity 2015</i></p> <p><i>23rd Intl. Conf. on Requirements Engineering 2015</i></p> <p><i>ICSE 2015 Software Engineering In Society Track (SEIS)</i></p> <p><i>1st Green in Software Engineering Workshop at ICGSE 2014</i></p> <p><i>International Workshop on Software Analysis, Visualization and Refactoring at FSE'14</i></p> <p><i>3rd International Conference on Eco-friendly Computing and Communication System (ICECCS 2014)</i></p> <p><i>Software Eng. Aspects of Green Computing (SEAGC) at the 30th ACM Symp on Applied Computing</i></p> <p><i>4th Workshop on Empirical Requirements Engineering (EmpiRE)</i></p> <p><i>1st Intl Workshop on Measurement and Metrics for Green and Sustainable Software (MEGSuS'14)</i></p> <p><i>First Intl. Workshop on Sustainable Software Product Lines SUSPL</i></p> <p><i>Second Intl. Workshop on Sustainable Software for Science: Practice and Experiences (WSSSPE2)</i></p> <p><i>Intl. Computer Science Education Research Conference (CSERC) 2014</i></p> <p><i>Workshop EASED at the Intl Conf EnviroInfo 2014</i></p> <p><i>Intl Conference on Computer Science Education and Research CSERC 2014</i></p> <p><i>Workshops of the 22nd Intl. Conf. on Requirements Engineering 2014</i></p> <p><i>22nd Intl. Conf. on Requirements Engineering 2014 Posters &amp; Demos</i></p> <p><i>Intl. Workshop on Green Software GREENS, at ICSE 2014</i></p> <p><i>Intl. Conf. on Evaluation and Assessment in Software Engineering EASE'14</i></p> <p><i>Intl. Conf. on Software Engineering Education and Training CSEE&amp;T 2014</i></p> <p><i>Intl. Conf. on Information and Communications Technology for Sustainability (ICT4S'14)</i></p>

Software Engineering Aspects of Green Computing 29th ACM Symposium on Applied Computing, 2014  
 Energy Aware Software-Engineering and Development (EASED@GI 2013)  
 EASED: Energy Aware Software-Engineering and Development at BUIS'13  
 2<sup>nd</sup> Intl. Workshop on Green Software (GREENS) at ICSE'13  
 21<sup>st</sup> Intl. Conference on Requirements Engineering (RE'13)  
 3rd Computer Science Education Research Conference (CSERC'13)  
 17<sup>th</sup> Intl. Conf. on Evaluation and Assessment in Software Engineering (EASE'13)  
 Software Engineering Aspects of Green Computing (ACM SAC, 2013)  
 4<sup>th</sup>. Intl Workshop on Social Software Engineering (at ESEC/FSE 2011)  
 5<sup>th</sup> Intl Workshop on Software Product Management (at RE'11)  
 4<sup>th</sup> Intl Workshop on Multimedia and Enjoyable Requirements Engineering (RE'11)  
 6<sup>th</sup> Intl Workshop on Requirements Engineering Education and Training (RE'11)  
 3<sup>rd</sup> Intl Workshop on Multimedia and Enjoyable Requirements Engineering (RE'10)  
 Workshop on Domain-specific Modeling at Modellierung 2008

Journal Reviewer  
 IEEE Software  
 Transactions on Software Engineering  
 Journal of Systems and Software  
 Requirements Engineering Journal  
 Journal on "Sustainable Computing: Informatics and Systems" (SUSCOM)  
 Journal of Software: Evolution and Process  
 Environmental Impact Assessment Review  
 Journal of Cleaner Production  
 Sustainability (SUSTDE)  
 The Computer Journal

**Selected Talks** (not including conference presentations)

July 2016	Designing sustainable futures with software	Wonder Women Tech Conference, Long Beach, California
Oct 2015	Software Engineers help change the World - Innovations towards a Sustainable Future	Innovation Open House, LACounty innovation weeks, CSULB, CA
Oct 2015	Designing Future Software for Sustainability: The Karlskrona Manifesto	Lightning talk at the Grace Hopper Conference, Houston, TX
May 2015	Artifact-Oriented Requirements Engineering: Principles and Practice	PhD Seminar day on RE, University of Pisa, Italy
March & Nov 2013	"Can we make Software Engineering more environmentally sustainable?"	Guest lecture, University of California, Irvine
June 2012	"Sustainability in Software Engineering"	University of California, Irvine
May 2012	"The notion of sustainability in software engineering"	Universität Zürich
May 2011	"Current Software Engineering Research Topics: RE in Embedded Systems and Software Quality Assessment"	"Brazilian Roadshow" by TUM Intl. Office for a delegation of Brazilian professors
April 2011	"State of the art in Requirements Engineering for Automation Systems"	Workshop for Functional Design for Distributed Automation Systems
Sept 2010	"Decomposicion de Sistemas y sus Requerimientos"	Instituto Tecnologico de Costa Rica
May 2009	"Research and Teaching – working as a doctoral candidate"	Frauen Netzwerk Informatik at the University of Passau

## Abroad Experience

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2/2013- 1/2015	UC Irvine, CA	Postdoctoral researcher at the Institute for Software Research of the University of California, Irvine
10-11/2011	UPC Barcelona	Guest lecturer at the Universitat Politècnica de Catalunya
8-9/2010	Instituto Tecnológico de Costa Rica	Visiting researcher, talks at the campuses of San José and San Carlos, preparations for a collaboration contract with TUM, participation in workshops, research group discussions, student advisor for stays abroad
2004-2005	Universidad de Málaga, Spain	Semester abroad in informatics, courses in image processing, codification theory, information systems, telematics engineering, and language course
2000-2001	Australia, New Zealand, USA	Sales representative at Chapter One Books in Sydney for three months, Stay at a Maori school in New Zealand

## Language Skills

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German	Mother tongue
English	Business fluent (10 years of classes, 9 months stay)
Spanish	Business fluent (3 years of classes, 10 months stay)
French	Advanced (5 years of classes, 1 month stay)
Japanese	Basic knowledge (3 terms of classes, 2 weeks stay)

## Dedication

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2015-2016	Mentor	Faculty mentor for high school students in "Girls at the Beach"
2009 - 2013	CyberMentor	Voluntary mentor for girls with interest in natural sciences
2009 - 2012	Save Me München	Supporter for the campaign of the Bavarian Refugee Association
2009 - 2013	Plan International Deutschland e.V.	Godmother for the aid and development organization for children
2009-2011	Bavarian Karate Association	Voluntary consultant and speaker for youth at the „Bayerischer Karatebundes e.V.“
2004 - today	Unicef and WWF	Support and active participation in campaigns, e.g. WWF climate visionary



## References

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- Prof. Debra Richardson, Ph.D.      *University of California, Irvine  
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- Prof. Steve Easterbrook, Ph.D.      *University of Toronto,  
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## Publications

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### Journal Articles

1. B Penzenstadler, L Duboc, Colin Venters, S Betz, N Seyff, C Wnuk, R Chitchyan, S Easterbrook, C Becker  
*Software Engineering for Sustainability: Find the Leverage Points!*  
*IEEE Software* 2018
2. Colin Venters, Rafael Capilla, Stefanie Betz, Birgit Penzenstadler, Tom Crick, Steve Crouch, Elisa Yumi Nakagawa, Christoph Becker, Carlos Carrillo  
*Software Sustainability: Research and Practice from a Software Architecture Viewpoint*  
*Journal of Systems and Software*, 2017
3. Birgit Penzenstadler  
*Sustainability Analysis and Ease of Learning in Artifact-based Requirements Engineering: The Newest Member of the Family of Studies (It's a girl!)*  
*Information and Software Technology, Special Issue on Automation and Analytics for Greener Software Engineering*, 2017
4. P Lago, B Penzenstadler  
*Editorial: Reality check for software engineering for sustainability - pragmatism required*  
*Journal of Software: Evolution and Process*, 2017, DOI: 10.1002/ismr.1856
5. Mendez, Briand, Zimmer, Wagner, Kalinowski, Felderer, Mafra, Vetro, Conte, Christiansson, Greer, Lassenius, Mannisto, Nayebi, Oivo, Penzenstadler, Pfahl, Prikladnicki, Ruhe, Schekelmann, Sagar, Ospinola, Vara, Tuzcu, and Wieringa.  
*"Naming the Pain in Requirements Engineering: Contemporary Problems, Causes, and Effects in Practice"*.  
*Springer Journal of Empirical Software Engineering (EMSE)*, pp.1-41, 2016.
6. Daniel S. Katz, Sou-Cheng T. Choi, Kyle E. Niemeyer, James Hetherington, Frank Löffler, Dan Gunter, Ray Idaszak, Steven R. Brandt, Mark A. Miller, Sandra Gessing, Nick D. Jones, Nic Weber, Suresh Marru, Gabrielle Allen, Birgit Penzenstadler, Colin Venters, Ethan Davis, Lorraine Hwang, Ilian Todorov, Abani Patra, Miguel de Val-Borro.  
*"Report on the Third Workshop on Sustainable Software for Science: Practice and Experiences (WSSSPE3)"*  
*Journal of Open Research Software (JORS)*, 2016
7. Christoph Becker, Stefanie Betz, Ruzanna Chitchyan, Leticia Duboc, Steve Easterbrook, Birgit Penzenstadler, Norbert Seyff, Colin Venters  
*"Requirements: The Key to Sustainability"*.  
*IEEE Software Special Issue: The Future of Software Engineering*
8. Patricia Lago, Sedef Akinli Kocak, Ivica Crnkovic, Birgit Penzenstadler  
*"Framing Sustainability as a Software Quality Property"*  
*Communications of the ACM*, 2015
9. Hans Lundberg, Ian Sutherland, Paul Blazek, Birgit Penzenstadler and Hagen Habicht  
*"The Emergence of Creativity, Innovation and Leadership in Micro-level Social Interactions and How to Research it"*  
*International Journal of Industrial Engineering and Management*, Vol 5, Issue 4, 2014
10. Daniel Mendez Fernandez, Birgit Penzenstadler  
*"Artefact-based Requirements Engineering: The AMDiRE Approach"*  
*Requirements Engineering Journal*, 2014
11. Birgit Penzenstadler, Ankita Raturi, Debra Richardson, Bill Tomlinson  
*"Safety, security, now sustainability: The non-functional requirement of the 21<sup>st</sup> century"* to appear in *IEEE Software*, 2014
12. Lago, Patricia and Kazman, Rick and Meyer, Niklaus and Morisio, Maurizio and Müller, Hausi A and Paulisch, Frances and Scanniello, Giuseppe and Penzenstadler, Birgit and Zimmermann, Olaf  
*"Exploring initial challenges for green software engineering: summary of the first GREENS workshop, at ICSE 2012"*  
*ACM SIGSOFT Software Engineering Notes*, 38:1 (31-33), 2013

13. Peter Braun, Manfred Broy, Frank Houdek, Matthias Kirchmayr, Mark Müller, Birgit Penzenstadler, Klaus Pohl, Thorsten Weyer: “Guiding Requirements Engineering for software-intensive Embedded Systems in the Automotive Industry”  
Computer Science Research and Development, October 2010

#### Conference Papers

14. Porras, Jari; Khakurel, Jayden; Tella, Susanna; Penzenstadler, Birgit; Melkas, Helina  
Living with smartwatches and pedometers: the intergenerational gap in internal and external contexts  
GOODTECHS 2017, Pisa, Italy
15. Jari Porras, Maria Palacin-Silva and Birgit Penzenstadler  
The evolving perceptions of sustainability in CS and SE education: findings from a master's programme  
Intl. Conference on Software Engineering Education and Training, CSEET 2017
16. David Callele, Krzysztof Wnuk, Birgit Penzenstadler  
New Frontiers for Requirements Engineering  
Intl. Conf. on Requirements Engineering 2017, NIER track
17. Alvaro Monge, Birgit Penzenstadler, Panadda Marayong, Shadnaz Asgari, Praveen Shankar  
Recruitment and Retention Efforts to Broaden Participation in Four Computing and Engineering Programs  
American Society for Engineering Education (ASEE) 2017 Pacific Southwest Conference
18. Colin Venters, Norbert Seyff, Christoph Becker, Stefanie Betz, Ruzanna Chitchyan, Leticia Duboc, Dan McIntyre and Birgit Penzenstadler.  
“Characterising Sustainability Requirements: A New Species, Red Herring, or Just an Odd Fish?”  
International Conference on Software Engineering Track Software Engineering in Society, Buenos Aires, May 2017
19. Ruzanna Chitchyan, Christoph Becker, Stefanie Betz, Leticia Duboc, Birgit Penzenstadler, Norbert Seyff, Colin Venters  
“Sustainability Design in Requirements Engineering: State of Practice”  
International Conference on Software Engineering Track Software Engineering in Society, Austin, May 2016
20. Birgit Penzenstadler. “A toolkit for SE for sustainability - a design fiction”  
HCI International 2015, Los Angeles, August 2015
21. Hans Lundberg, Ian Sutherland, Birgit Penzenstadler, Paul Blazek, Hagen Habicht  
“La Chispa de la Ciudad de México: Co-Creation of Organizational Innovations and its Implications for Managing Innovation”  
MCPC 2015.
22. Christoph Becker, Ruzanna Chitchyan, Leticia Duboc, Steve Easterbrook, Birgit Penzenstadler, Norbert Seyff, and Colin Venters  
“Sustainability Design and Software: The Karlskrona Manifesto”  
Software Engineering in Society (SEIS) at ICSE 2015
23. Birgit Penzenstadler “A toolkit for SE for sustainability - a design fiction”  
HCI International 2015
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  29. David Callele, Birgit Penzenstadler, Krzysztof Wnuk  
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  33. B. Penzenstadler  
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  38. Daniel Mendez Fernandez, Klaus Lochmann, Birgit Penzenstadler, Stefan Wagner:  
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43. Manfred Broy, Jorge Fox, Florian Hölzl, Dagmar Koss, Marco Kuhrmann, Michael Meisinger, Birgit Penzenstadler, Sabine Rittmann, Bernhard Schätz, Maria Spichkova, Doris Wild  
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44. Madeleine L. Gibson, Colin C. Venters, Leticia Duboc, Stefanie Betz, Ruzanna Chitchyan, Victoria Palacin Silva, Birgit Penzenstadler and Norbert Seyff  
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47. Ruzanna Chitchyan, Stefanie Betz, Leticia Duboc, Birgit Penzenstadler, Christophe Ponsard, Colin C. Venters  
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48. Guillermo Rodriguez-Navas, Leticia Duboc, Stefanie Betz, Ruzanna Chitchyan, Birgit Penzenstadler, Colin C. Venters  
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49. Birgit Penzenstadler  
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51. Birgit Penzenstadler, Ankita Raturi, Debra J. Richardson, M. Six Silberman, and Bill Tomlinson  
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52. Birgit Penzenstadler, Joseph Mehrabi, Debra Richardson  
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53. Birgit Penzenstadler  
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54. Birgit Penzenstadler, Debra Richardson, Beth Karlin, Allison Cook, David Callele, Krzysztof Wnuk  
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56. B. Penzenstadler, J. Eckhardt, D. Mendez Fernandez  
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58. Birgit Penzenstadler, Henning Femmer  
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59. Alejandra Rodriguez, Birgit Penzenstadler  
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60. Juliet Norton, Alex J. Stringfellow, Joseph J. LaViola Jr., Birgit Penzenstadler and Bill Tomlinson  
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65. B. Penzenstadler, Jonas Eckhardt  
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71. Birgit Penzenstadler  
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89. Christopher Arciniega, Birgit Penzenstadler  
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91. Birgit Penzenstadler, Daniel Mendez, Debra Richardson, David Callele, Krzysztof Wnuk  
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98. Lars Heinemann and Christian Neumann and Birgit Penzenstadler and Wassiou Sitou (eds):  
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99. Peter Braun and Manfred Broy and Frank Houdek and Matthias Kirchmayr and Mark Müller and Birgit Penzenstadler and Klaus Pohl and Thorsten Weyer:  
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100. Manfred Broy, Andreas Fleischmann, Shareef Islam, Leonid Kof, Klaus Lochmann, Christian Leuxner, Birgit Penzenstadler, Daniel Méndez Fernández, Wassiou Sitou, Sebastian Winter  
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