

Curriculum Vitae - Nelly Bencomo, March, 2020

Senior Lecturer in Computer Science, Aston University, UK

<http://www.nellybencomo.me/>

e-mail: nelly@acm.org

Publications: a complete list of publications is found in the last part of this CV. Also, in the URL Google Scholar page and URL of DBLP page.

URL of the applicant's personal Google Scholar page (h-index 28):

<https://scholar.google.co.uk/citations?user=86H7HmkAAAAJ>

URL of DBLP page:

<http://dblp.uni-trier.de/pers/hd/b/Bencomo:Nelly.html>

Blog: <https://womandacademic.wordpress.com/>

In this blog I discuss my views of the world as an academic, a woman, and a mum not necessarily in that order

Publications: a complete list of publications is found in the last part of this CV.

Nelly Bencomo exploits the interdisciplinary aspects of software engineering, comprising both technical and human concerns, while developing techniques for intelligent, autonomous and highly distributed systems.

Nelly Bencomo is a *Lecturer in Computer Science* in Aston University (since May 2013). Before she was a EU Marie Curie Fellow, from May 2011- May 2013 under a *Marie-Curie Fellowship (Grant) Requirements@run.time: Requirements-aware Systems*. She was a Senior Researcher at Lancaster University until May 2011 after being awarded her PhD in Computer Science by Lancaster University in 2008.

Research: She is interested in all aspects of software modelling and specially the application of model-driven techniques, during the **development and operation of highly distributed and dynamically adaptive systems**. Lately, she has focused on **quantification of uncertainty** and the use of Bayesian learning to support **decision-making for self-adaptation**. She is particularly interested in what she calls *models@run.time*, the use of models and model-driven techniques during runtime. Research on *models@run.time* seeks to extend the applicability of models and abstractions to the runtime environment, with the goal of providing effective technologies for managing the complexity of evolving software behaviour while it is executing. Runtime models can be used, for example, to check correctness and consult the current state of a system during execution. Key benefits of runtime models are (1) runtime models can be used to match domain-specific knowledge, offer a richer semantics support for runtime decision-making related to system adaptation and other runtime concerns and (2) runtime models support reasoning and self-awareness (i.e. requirements-awareness, context-awareness). She coined the term *models@run.time*, with her colleagues Prof. Blair (from UK) and Prof. France (from USA). Lately, she has published papers studying the synergy between AI in SE. She co-founded the workshop AIRE Workshop on Artificial Intelligence for Requirements Engineering, <http://aire.in.tum.de/> .

Details about all the publications (papers accepted, under submission and in preparation) are described at the end of this CV.

Teaching and Tutoring: In addition to my research record, I also have substantial teaching experience. I enjoy teaching! Since May 2013 I have been a lecturer at Aston University where I have had the opportunity to teach different modules with different roles. I have been a module leader but also have shared the duties of modules with other staff members. I have also had other roles such as supervisor of Final Year Projects, Group projects, Personal tutor and Final Year Tutor for Computing for Business (2014-). More about my teaching experience is described in this CV.

Education

- PhD in Computing, Lancaster University, March 2008

Qualifications

- Fellow of The Higher Education Academy (November, 2016)
 - Postgraduate Certificate in Teaching & Learning (Aston University, 2014)
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Professional Memberships

ACM (since May 2008), ACM SIGSOFT, IEEE (since 2008), BCS (since 2013)

Employment History

- 2013 May – Present, Lecturer in Computer Science, Aston University, UK
 - 2011 May – May 2013, Marie Curie Fellow, INRIA, Paris-Rocquencourt, France
 - 2008 April – April 2011, Senior Research Associate, Lancaster University
 - 2006 – March 2008, Research Associate, Lancaster University
 - 2003 – 2006, Teaching Assistant, Lancaster University
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Research Activities

Successful Grants

- EPSRC **Twenty20Insight (2020-2023) £586,520.00**
- Research Fellowship by Leverhulme Trust “QuantUn: Quantification of Uncertainty using Bayesian Surprises” **£54,983 (2019-2020)**
- requirements@runtime: Requirements-aware Systems, €222.547, 24-month Marie Curie Action Intra-European Fellowship (Main author for project proposal), (2011-2013)
- 2 VC international PhD scholarships, Aston University, £60000 (2018)
- Faculty PhD scholarship, , Aston University (2015)
- Visiting Scholar Funding 2015, Aston University, £1200
- M@TURE Models @ run Time for self-adaptive pervasive systems: enabling User-in-the-loop, REquirement-awareness, and interoperability in ad hoc settings, 24-month, €37.600, Inria-funded international collaboration grant (Brazil-France) with Nikolaos Georgantas (2012-2014). We also won a second version (2014-2016) €37.600.
- DiVA: Dynamic Variability in complex, Adaptive Systems, 3-year project STREP proposal, FP7-ICT (Co-author for project proposal), 2008
- VERA: Verifiable Aspect Models for Middleware Product Families - (ESPRC project Visiting Fellowship) Co-author for project proposal, 2006
- Faculty PhD Studentship 3 years (Lancaster University), October 2003 – September 2006
- International Travel Grant, The Royal Academy of Engineering, 2009, 2008, 2007
- ACM SIGSOFT CAPS Grant for MoDELS/UML 2006, 2005
- International Travel Grant, The Royal Academy of Engineering
- ACM/IFIP/USENIX 5th International Middleware Conference,
- Student Travel Grant Association Internationale pour les Technologies Objects (AITO)

Research Projects I worked for in the past

- Research Fellow of European project CONNECT February 2011 - Present
 - Research Fellow of European project DiVA (Dynamic Variability, February 2008 – January 2011
 - Researcher of ESPRC UK Project The Divergent Grid, October 2005 – January 2008
 - Researcher of European project RUNES Project, European Project Sixth Framework Programme. September 1st 2004 - April 30th 2007
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Honours and Awards

- **Keynote speaker in 14th IEEE International Conference on Autonomic Computing (ICAC 2017),**

<http://icac2017.ece.ohio-state.edu/program/keynotes/>

- **Best Award Paper** in the 19th International Working Conference on Requirements Engineering (REFSQ), 2013

-Award Program for the Researcher's Promotion (Programa de Promoción al Investigador PPI)

- Best National Postgraduate Thesis (Distributed Graphical User Interface for Pipeline Transportation of Crude Oil), "UCV/PDVSA-CIED". Universidad Central de Venezuela / National Oil Holding - PDVSA.

PhD Students

Luis Garcia (Finished 2019)

Juan M. Parra (2nd Year), co-supervised with Dr. Antonio Garcia

Owen Reynolds (2nd Year), co-supervised with Dr. Antonio Garcia

Huma Samin (2nd Year) co-supervised with Prof Pete Sawyer

Master Student

Amel Balagoun, 2012 with honours (3 Conference papers were written from her Master studies)

Services to Research Community

Organization of Events

- Co-organizer and co-founder of Workshop Models@run.time in MODELS 2006-2018 (average participants 20-40 people)
- Coordinator Five-day Dagstuhl seminar on Models@run.time 2011, Germany, <http://www.dagstuhl.de/> (participants 64 people)
- Co-organizer and Steering Committee member of Workshop Artificial Intelligence for Requirements Engineering (AIRE) in RE 2014-17
- Co-organizer and co-founder of Workshop Requirements@run.time in RE 2010 and 2011 (average participants 20-35 people)
- Co-organizer 3rd International Model-Driven Requirements Engineering Workshop MoDRE 2013, 2019
- Co-organizer of the First International workshop on Validation and Verification of Dynamic Software Systems ViDaS' 10, Paris, April, 2010
- Co-organizer Workshop M-ADAPT: Model-Driven Software Adaptation in ECOOP 2007 (participants >20 people)
- Co-organizer Working Meeting "Models and Aspects for Product Families: A Roadmap for Research" 1st Nov 2006, Lancaster University, UK

Professional Services

- Associate Editor Transactions on Software Engineering (since 2019)
- Member of the Editorial Board of the International Journal on Software and Systems Modeling (SoSyM) sosym.org since 2019.
- General secretary of the BCS RESG Committee (special interest group for systems requirements) (2017-).
- Member of the Editorial Board of the Springer Journal of Software Engineering Research and Development (JSERD) since March 2016
- Member of the Steering Committee SEAMS 2014 – 2018
- Member Program Board MODELS Conference since 2017, 2018

International Projects Reviewer

- **The Knowledge Foundation, Sweden, 2017**
- **National Science Foundation, USA, 2016, 2017**
- **EU ERA-NET CHIST-ERA** Expert reviewer since **2014**
- **Swiss National Science Foundation (SNSF)**, Expert reviewer, Switzerland,, 2012
- **Natural Sciences and Engineering Research Council of Canada**, Expert reviewer, Canada, 2012
- **French National Research Agency (ANR)**, Expert reviewer, France, 2010, 2011, 2013, 2014
- **Vienna Science and Technology Fund**, Austria, project reviewer/evaluator, 2010, 2014

Regular Publications Reviewer

- Transactions on Software Engineering and Methodology (TOSEM)
- ACM Transactions on Autonomous and Adaptive Systems (TAAS)
- Journal SoSyM Software and Systems Modeling, Springer
- Requirements Engineering (REEN) Journal
- Journal Computing, Springer
- JUCS Special issue on Software Components, Architectures and Reuse- Special Issue, Summer 2009
- IEEE Software Special Issue: Domain-Specific Languages & Modeling, Jul/Aug 2009
- Journal of Systems and Software - Special issue on Software Architectures and Mobility
- Journal Formal Aspects of Computing (FAC)

Program Committee and organization

I have served or serve as Program Committee member of:

2021

- **PC ICSE 2021**, Spain

2020

- **PC SEAMS 2020**, Korea
- **PC MODELS 2020**, Canada
- **Program Chair of WICSA 2020**, Bahia, Brazil
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2019

- **PC ICSE 2019**, 41th International Conference on Software Engineering 2019, Canada
- **PC RE-Next 2019**, Korea
- **PC SEAMS 2019**, Canada
- **PC MODELS 2019**, Germany

2018

- **ICSE 2018**, 40th International Conference on Software Engineering 2018, Sweden
- **20th RE 2018, SEAMS 2018**, Sweden, 2018
- **MODELS 2018**, 14-19 October 2018 Copenhagen, Denmark
- **ER 2018**. The 36th International Conference on Conceptual Modeling. China
- **CibSE XXI** Ibero-American Conference on Software Engineering, Colombia, 2018

2017

- **PC 20th MODELS 2017**, USA, 2017
- **PhD Symposium Chair at MODELS 2017**
- **PC RE-NEXT 2017**, Portugal, 2017
- **PC Member SEAMS 2017**
- **ER 2017**. The 36th International Conference on Conceptual Modeling
- **PC CibSE XX** Ibero-American Conference on Software Engineering, Argentina, 2017

2016

- **PC Member ESEC/FSE 2016**
- **PC 19th MODELS 2016**, France, 2016
- **PC PhD Symposium at MODELS 2016**,
- **PC RE 2016**, China, 2016
- **PC Member SEAMS 2016**
- **PC Member REFSQ 2016**
- **PC Member SAC-RE 2016** 9th Edition of the Requirements Engineering Track

2015

- **PC Member ESEC/FSE 2015**
- **PC Member ICSE NIER Track 2015**, ICSE 2015
- **PC 18th MODELS 2015**
- **Member of the RE'15 Workshop Selection Committee**

2014

- **SEAMS'14, RE'14, RE'14 Posters&Demos, MODELS 2014, ICSE NIER Track 2014, Publicity co-Chair MODELS 2014, VAMOS 2014, CibSE 2014**

2013

- **SEAMS'13, MODELS, RE 2013: Posters&Demos, VaMOS, 2013, SBES 27th Brazilian Symposium on Software Engineering (SBES), Brazil, 2013 – PC, MoDRE 3rd International Model-Driven Requirements Engineering Workshop 2013 – Organizer and PC**

2012

- **ICSE 2012, Zurich, Switzerland, Students Volunteer Chair, MODELS'12, SEAMS'2012, Posters and Demonstration RE 2012 –PC, CibSE 2012, SBES**

2011

- **Posters and Demonstrations RE 2011, SBES 25th Brazilian Symposium on Software Engineering (SBES), MoDRE, SEAMS 2011**

- **2010**

- SEAMS 2010 , WCSI 2010 International Workshop on Component and Service Interoperability at TOOLS 2010
- **2009**
- SOAR 2009 **Workshop Self-Organizing Architectures at WICSA/ECSA 09**, WASELF 2009 **2nd Workshop on Autonomic and SELF-adaptive Systems**, 2009, **SEAMS 2009**
- 2008**
- **ASE 2008, AQuSerM: Advances in Quality of Service Management with EDOC 2008 , WASELF-***: **Workshop on Autonomic and SELF-adaptive Systems**, Spain, 2008, **REV 2008 Third International Workshop on Requirements Engineering Visualization (REV'08)**, **WCAT 2008 5th Workshop on Coordination and Adaptation Techniques**, Italy, 2008, **ARAMIS 2008 Automated EngineerRing of Autonomic and run-tiMe evolving Systems**, Italy, **MDDAS 2008 The First IEEE International Workshop on Model-Driven Development of Autonomic Systems**, Turku, Finland, 2008, **IDEAS 2008 11th Iberoamerican Workshop Requirements Engineering and Software Environments**, Brazil

Talks and Invitations

- Invited Keynote 14th IEEE International Conference on Autonomic Computing (ICAC 2017): **"The role of Software Engineering in Autonomic Computing"**
- **"Decision making for Self-adaptation under Uncertainty"**, Fraunhofer IESE – Kaiserslautern, Germany, June, 2016
- **"How Self-Adaptive Systems Challenge Requirements Engineering"**, Fraunhofer IESE – Kaiserslautern, Germany, May, 2012
- **"On the Use of Runtime Models: the use of claims to tackle uncertainty"**, Projet ADAM – IRIAN – Lille, France - May, 2012
- **"On the Use of Runtime Models: from architectural-based models to requirement-based models"**, Projet MARGE - Équipe SAMOVAR/ACMES - Dpt INF - Télécom SudParis, France, November, 2011
- **"Known Unknowns: How Self-Adaptive Systems Challenge Requirements Engineering"**, University of Trento, Italy, November, 2011
- **"Requirements for Self-adaptation: a tutorial"**, 4th Summer School on Generative and Transformational Techniques in Software Engineering, Braga, Portugal, July, 2011
- **"Dagstuhl Perspective Workshop: Model Engineering of Complex Systems, 10-13 August 2008, Dagstuhl, Germany"**, 10-08-2008 – 13-08-2008
- **"Supporting the Model Driven Development of Reflective, Component-based Adaptive Systems"**, **Conference Code Generation**, 2008, CG2008, Cambridge, UK, 25 - 27 June 2008
- **Workshop on Quality of Service Management**, at King's College London, 22nd and 23rd of April 2008
- **Invited talk: "Dynamically Adaptive Systems supported by Reflective Component-based Technologies: a Software-based Models Perspective"**, 25th February, 2008, King's College London
- **Dagstuhl-Seminar on "Software Engineering for Self-Adaptive Systems"**, 13-01-2008 – 18-01-2008. Workshop Organized by Cheng H.C. Betty, de Lemos Rogerio, Giese Holger, Inverardi Paola, Magee Jeff
- Workshop on **"Perspectives on Model Driven Engineering of Software"**, Rennes, April 2007, organized by Prof Jézéquel

Panels

- Fishbowl Panel: Do we need to Change Software Engineering Curricula for the Challenges of an Instrumented and Interconnected World, **ICSE 2012**, (Wed June 6 2012)
- Panelist invited at **SEAMS Workshop (Software Engineering for Adaptive and Self-Managing Systems)**, 12,13 May held with ICSE, 2008

PhD External Examiner (9)

University of Oslo (2019), UCL UK (2018), Universidad Javeriana (2018), University of Valencia (2017), University of York, UK (2015), Birmingham University, UK (2015), Universidad Técnica Federico Sta Maria, Chile (2014), University of Malaga, Spain (2012), Fondazione Bruno Kessler, University of Trento, Italy (2011), King's College London, UK (2010)

Teaching Experience

At Aston University, UK:

- Since May 2013 I have been a lecturer at Aston University where I have had the opportunity to teach different modules (such as Java Programming [~170- 220 students], Computational Intelligence [~20 students] and Software Project Management [~170-220 students]) with different roles. I have been a module leader but also have shared the duties of modules with other staff members. I have also had other roles such as supervisor of Final Year Projects, Group projects, Personal tutor and Final Year Tutor for Computing for Business (2014-17). I am the PhD Tutor of the PhD students in CS at Aston.

At Lancaster University, UK:

- 2007, 2008, 2009 Guest Lectures on the use of UML and Models-driven Engineering, for undergraduate students and Master Student at Lancaster
- 2004, 2005, 2006, *Web Technologies Practical course*, Responsible for design of curriculum, overseeing lab activity, designing and grading exams (number of students between 50 and 100).
- 2004, 2005, *Discrete Math* course, Presented lectures, and prepared associated material designing, and grading exams (between 50-100 students)
- 2002, *Concurrent Programming* course, lectures and prepared associated material.

At UCV, Venezuela:

- Courses in *Distributed Object Applications*, *Probability and Statistic* and *Object-Oriented Simulation*, Responsible for design of curriculum, presenting topics, overseeing lab activity, designing, administering and grading exams, and assigning final grades.

Courses/events on teaching undertaken or attended

I went through a two-year training as a Instructor Lecturer (Junior Lecturer) after been promoted to Assistant Lecturer (tenure position) at the UCV before joining Lancaster. This training program is very structured and rigorous and is part of the preparation of all Assistant Lecturers in any public university in Venezuela. It is a very competitive field.

During my training I got the certificate for the following course:

- **Teaching techniques and learning strategies in the classroom:** The course teaches skills to design and deliver material in the classrooms and lab, how to open, develop, and close a lecture in an effective way. It was fully based in reflection and auto feedback received from videos of classes delivered that were filmed. The feedback was discussed by peers and tutor of the course (20 hours 5 sessions of 4 hours each plus the assessment).

- **Fundamentals of the Design of Courses and Elaboration of Programs:** This course was about how to design course programs and syllabus. The course teaches the skills of how to develop and program a course, including the description of the main goals of a course and the specific goals of every lecture/class to be delivered, and strategies of evaluations to be used. (60 hours in 15 sessions of 4 hours each. Assessment: The course needed me to design 2 new courses I was in charge of in those days.)

Languages Spanish (mother tongue), English (second language), French (good)

Other activities Cinema, Trekking, Photography, and Yoga

References

- **Prof. Gordon Blair, Computing Department, Lancaster University, UK** (PhD Supervisor, co-author of several research papers, co-organizer of international workshops, co-organizer Dagstuhl Seminar)
- **Prof. Betty H.C. Cheng, Computer Science and Engineering, Michigan State University, USA** (co-author of several papers, co-organizer of international workshops, co-organizer Dagstuhl Seminar)
- **Dr. Valerie Issarny, Directeur de recherche INRIA ARLES Project-Team, Paris, France** (line manager and co-author of several papers)
- **Prof. Anthony Finkelstein, Professor and Dean of UCL Faculty of Engineering Sciences** (co-author of several papers)

Publications see Annexe next pages

Publications

Editorials and Keynotes

- **"The Role of models@run. time in Autonomic Systems: Keynote"**, N. Bencomo, Keynote paper for the Autonomic Computing Conference (ICAC), 2017 IEEE International Conference on, 293-294
- **"Introduction to the Special Section on Best Papers from SEAMS 2014"**, Nelly Bencomo, Gregor Engels (Eds.) ACM Transactions on Autonomous and Adaptive Systems, Volume 10, Issue 4, February 2016
- **Editorial of the Book "Models@run.time: Foundations, Applications, and Roadmaps"**, Nelly Bencomo, Robert France, Betty H.C. Cheng and Uwe Assmann (Eds.) LNCS 8378, 2014, © Springer International Publishing Switzerland 2014
- **"Editorial: IEEE Computer: Special issue on [Models@run.time](#)"**, Gordon Blair, Nelly Bencomo, and Robert France, October, 2009 [546 citations]

Journal Publications and Book Contributions

- **"Towards Model-Driven Sustainability Evaluation"**, Jorg Kienzle, Gunter Mussbacher, Benoit Combemale, Lucy Bastin, Nelly Bencomo, Jean-Michel Bruel, Christoph Becker, Stefanie Betz, Ruzanna Chitchyan, Betty H.C. Cheng, Sonja Klingert, Birgit Penzenstadler, Norbert Seyff, Communications of the ACM, 2019
- **"Models@run.time: a Guided Tour of the State-of-the-Art and Research Challenges"**, Nelly Bencomo, Sebastian Götz and Hui Song, *Sosym Journal*, 2018
- **"A dynamic CWW architecture for supporting runtime reconfiguration decisions of service-based systems"**, R. Torres, R.Salas, N. Bencomo, H. Astudillo, *The International Journal of Computational Intelligence Systems (IJCIS) (ISI/WOS)*, 2018
- **"Self-explanation in Adaptive Systems based on Runtime Goal-based Models"**, Nelly Bencomo, Kris Welsh, Pete Sawyer, Jon Whittle, *Transactions on Computational Collective Intelligence*, 2014
- **"The Role of Models@run.time in Supporting On-the-fly Interoperability"**, Nelly Bencomo, Amel Bennaceur, Paul Grace, Gordon Blair, and Valerie Issarny, Special Issue [Models@run.time](#), **Springer Computing**, Edited by Radu Calinescu, Robert France, and Carlo Guezzi, 2013
- **"A View of the Landscape of Dynamic Software Product Lines"**, Nelly Bencomo, Svein Hallsteinsen, Eduardo Almeida, *Special Special Issue on Dynamic Software Product Lines (DSPL) IEEE Computing*, Edited by Mike Hinchey and Klaus Schmid, October 2012
- **"Software Engineering for Self-Adaptive Systems: A Second Research Roadmap"**, In Software Engineering for Self-Adaptive Systems 2, Editors R. de Lemos, H. Giese, H. Müller, and M. Shaw. Lecture Notes in Computer Science Hot Topics, Springer, 2012 [1336 citations]
- **"RELAX: A Language to Address Uncertainty in Self-Adaptive Systems Requirements"**, Jon Whittle, Pete Sawyer, Nelly Bencomo, Betty H.C. Cheng, and Jean-Michel Bruel in *Requirements Engineering Journal*, 2010, [155 citations]
- **"Software Engineering for Self-Adaptive Systems: A Research Roadmap"**, Betty H.C. Cheng, Rogério de Lemos, Holger Giese, Paola Inverardi, Jeff Magee, Jesper Andersson, Basil Becker, Nelly Bencomo, Yuriy Brun, Bojan Cukic, Giovanna Di Marzo Serugendo, Schahram Dustdar, Anthony Finkelstein, Cristina Gacek, Kurt Geihs, Vincenzo Grassi, Gabor Karsai, Holger M. Kienle, Jeff Kramer, Marin Litoiu, Sam Malek, Rafaela Mirandola, Hausi A. Muller, Sooyong Park, Mary, , Matthias Tichy, Massimo Tivoli, Danny Weyns, Jon Whittle,

- **"Traceability Management through Use Cases when Developing Distributed Object Applications"** extended/refereed article, Bencomo, N., Mateo, A., in Journal of Object Technology, vol. 4, no. 6, 2005 pp 29-43

Conferences Publications

- **"ARRoW: Automatic Runtime Reappraisal of Weights for Self-Adaptation"**, Luis Garcia Paucar and Nelly Bencomo, The 12th Edition of the Requirements Engineering Track (RE-Track'19) is part of the 34rd ACM Symposium on Applied Computing. SAC 2019
- **"Re-STORM: Runtime Non-Functional Requirements trade-off supported by Partially Observable Markov Decision Processes"**, Luis Garcia Paucar and Nelly Bencomo, 13th International Symposium on Software Engineering for Adaptive and Self-Managing Systems, 2018
- **"DeSiRE: Further Understanding Nuances of Degrees of Satisfaction of Non-functional Requirements Trade-off"**, Ross Edwards and Nelly Bencomo, 13th International Symposium on Software Engineering for Adaptive and Self-Managing Systems, 2018
- **"Juggling Preferences in a World of Uncertainty"**, Luis Garcia Paucar and Nelly Bencomo, International requirements Engineering Conference 2017
- **"RE-PREF: Support for REassessment of PReferences of Non-functional Requirements for Better Decision-making in Self-adaptive System"**, Luis Garcia Paucar and Nelly Bencomo, 24th International Conference on Requirements Engineering 2016, RE 2016. Posters and Demo Tools
- **"QuantUn: Quantification of Uncertainty for the Reassessment of Requirements"**, Nelly Bencomo, RE: Next! track at the 23rd International Requirements Engineering Conference RE'15 Ottawa, Canada, 24-28 Aug, 2015
- **"Minimizing Nasty Surprises with Better Informed Decision-Making in Self-Adaptive Systems"**, Sara Hassan, Nelly Bencomo and Rami Bahsoon, 10th International Symposium on Software Engineering for Adaptive and Self-Managing Systems, 2015, Florence, Italy
- **"Revisiting Goal-Oriented Models for Self-Aware Systems-of-Systems"**, André Almeida, Nelly Bencomo, Thais Batista, Everton Cavalcante, Francisco Dantas, 30th ACM Symposium on Applied Computing (SAC), Requirements Engineering Track (SAC-RE-Track'15), Salamanca, Spain, April, 2015
- **"Dynamic Decision-Making based on NFR for Managing Software Variability and Configuration Selection"**, Everton Cavalcante, Thais Batista, Nelly Bencomo, Pete Sawyer, 12th IEEE International Conference on Autonomic Computing ICAC 2015, Grenoble, France, 7 - 10 July, 2015
- **"CloudMPL: A Domain Specific Language for Describing Management Policies for an Autonomic Cloud Infrastructure"**, Marwah M. Alansari, Andre Almeida, Nelly Bencomo and Behzad Bordbar, 5th International Conference on Cloud Computing and Services Science CLOSER 2015, Lisbon, Portugal, May, 2015 ([one of the Best Papers](#))
- **"Self-adaptive Probabilistic Roadmap Generation for Intelligent Virtual Agents"**, Kat McIvor, Nelly Bencomo, Peter Lewis, Eighth IEEE Conference on Self-Adaptive and Self-Organizing Systems SASO 2014, London, UK in September 2014 ([one of the best papers](#))
- **"A world full of surprises: Bayesian theory of surprise to quantify degrees of uncertainty"**, Nelly Bencomo, Amel Belaggoun, 36st International Conference on Software Engineering 2014, ICSE 2014, Track on New Ideas and Emerging Results (NIER), India, 31 May - June 7 2014, Acceptance rate: 24%

- **"Dynamic Decision Networks for Decision-making in Self-adaptive Systems : a Case Study"**, Nelly Bencomo, Amel Belaggoun, and Valerie Issarny, *8th International Symposium on Software Engineering for Adaptive and Self-Managing Systems*, 2013
- **"Supporting Decision-making for Self-adaptive Systems: From Goal Models to Dynamic Decision Networks"**, Nelly Bencomo and Amel Belaggoun, submitted to the 19th International Working Conference on Requirements Engineering: Foundation for Software Quality REFSQ 2013 (one of the best papers)
- **"RELAXing Claims: Coping With Uncertainty While Evaluating Assumptions at Run Time"**, Andres Ramirez, Betty H.C. Cheng, Nelly Bencomo, and Pete Sawyer, submitted to 15th ACM/IEEE International Conference On Model Driven Engineering Languages And Systems MODELS 2012 (Foundations Tracks), Austria
- **"Self-explanation in Adaptive Systems"**, Nelly Bencomo, Kristopher Welsh, Pete sawyer, and Jon Whittle *17th IEEE International Conference on Engineering of Complex Computer Systems, ICECCS 2012, Paris, France, July, 2012 (one of the best papers)*
- **"Towards Requirements Aware Systems: Run-time Resolution of Design-time Assumptions"**, Kristopher Welsh, Pete sawyer, Nelly Bencomo *26th IEEE/ACM International Conference On Automated Software Engineering, ASE 2011, Kansas, USA, November 6 - 10, 2011*
- **"Requirements-Aware Systems A research agenda for RE for self-adaptive systems"**, Pete Sawyer, Nelly Bencomo, Jon Whittle, Emmanuel Letier, Anthony Finkelstein, *18th IEEE International Requirements Engineering Conference, RE 2010, Sydney, Australia, September 27th - October 1st 2010, Acceptance rate: 15.9%*
- **"Requirements Reflection: Requirements as Runtime Entities"**, Nelly Bencomo, Jon Whittle, Pete Sawyer, Anthony Finkelstein, and Emmanuel Letier, *32st International Conference on Software Engineering 2010, ICSE 2010, Track on New Ideas and Emerging Results (NIER), Cape Town, South Africa, 2-8 May 2010, Acceptance rate: 25%*
- **"A Goal-Based Modeling Approach to Develop Requirements for Adaptive Systems with Environmental Uncertainty"**, Betty H.C. Cheng, Pete Sawyer, Nelly Bencomo, and Jon Whittle, *12th ACM/IEEE International Conference On Model Driven Engineering Languages And Systems MODELS 2009, Denver, Colorado, USA, 4 - 9 October 2009, Acceptance rate: 16%*
- **"RELAX: Incorporating Uncertainty into the Specification of Self-Adaptive Systems"**, Jon Whittle, Pete Sawyer, Nelly Bencomo, Betty H.C. Cheng, and Jean-Michel Bruel, *17th IEEE International Requirements Engineering Conference, RE 2009, Atlanta, Georgia, USA, 31 August - 4 September 2009, Acceptance rate : 21%*
- **"An Aspect-Oriented and Model-Driven Approach for Managing Dynamic Variability"**, Brice Morin, Franck Fleurey, Nelly Bencomo, Jean-Marc Jezequel, Arnor Solberg, Vegard Dehlen, and Gordon Blair, *11th ACM/IEEE International Conference On Model Driven Engineering Languages And Systems MODELS Conference, Toulouse, France, 28 September - 3 October 2008, Acceptance rate: 21%*
- **"Engineering Complex Adaptations in Highly Heterogeneous Distributed Systems"**, Paul Grace, Gordon Blair, Carlos Flores, Nelly Bencomo *2nd International Conference on Autonomic Computing and Communication Systems [Autonomics 2008](#), Turin, Italy, September 2008, Invited paper*
- **"Genie: Supporting the Model Driven Development of Reflective, Component-based Adaptive Systems"**, Nelly Bencomo, Paul Grace, Carlos Flores, Danny Hughes, and Gordon Blair *Formal Research Demonstrations, 30th International Conference on Software Engineering, [Formal demos at ICSE 2008](#), 811-814, Leipzig, Germany, May 2008, Acceptance rate for formal demos: 20.5%*
- **"Goal-Based Modeling of Dynamically Adaptive System Requirements"**, Heather J. Goldsby, Pete Sawyer, Nelly Bencomo, Danny Hughes, and Betty H. C. Cheng

15th IEEE International Conference on Engineering of Computer-Based Systems, [ECBS 08](#), Belfast, Northern Ireland, 31 March - 4 April, 2008.

- **"Adapting the Unified Process UP for the Development of CORBA Applications"**, N.Bencomo, A. Matteo, IRMA Conference, PH,USA May, 2003
- N.Bencomo, A. Matteo, Distribution and the Internet Conference, CIMPAUNESCOINRIA,Vzla, Jan, 2002 (in Spanish)
- **"Rescate de Aplicaciones Legacy: Mecanismo de Comunicación para Procesos Legacy con memoria compartida en Aplicaciones Distribuidas"**, N.Bencomo, et all, Proc. Latin American Conference of Informatics CLEI 2001, Mérida, Vzla Sep, 2002 (in Spanish)
- **"PTMS: A graphical Multiuser Interface for a RealTime System"**, N.Bencomo, et all, Practical Experience Segment of Distributed Objects Conference 2001, Sao Paolo, Brazil Nov, 2001
- **"Comparación de CORBA y X Web en el Desarrollo y Desempeño de Una Interfaz Gráfica Multiusuario"**, N.Bencomo et all, Proc. Latin American Conference of Informatics CLEI2000, Méjico, 2000 (in Spanish)
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