

## Short Curriculum Vitae - Nelly Bencomo, May 2016

Lecturer in Computer Science, Aston University, UK

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

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**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 is also a **Visiting Academic** at Lancaster University since May 2011. She was a Lecturer (tenured position 2003) in the Computing School, Universidad Central de Venezuela (UCV). She was 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. Gordon Blair (from UK) and Prof. Robert France (from USA). Details about my publications (papers accepted, under submission and in preparation) are described in this CV.

**Teaching:** I enjoy teaching. In addition to my research record, I also have substantial teaching experience. 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 (2014-16). More about my teaching experience is described in this CV.

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### Education

- PhD in Computing, Lancaster University, March 2008
  - MSc in Software Engineering, Universidad Central de Venezuela (UCV), (honourable mention)
  - Five-year Bachelor in Computing Science, Universidad Central de Venezuela, (ranking 4<sup>th</sup> in a group of 37)
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### Qualifications and Professional Memberships

- Postgraduate Certificate in Teaching & Learning (Aston University, 2014)
  - ACM (since May 2008), ACM SIGSOFT, IEEE (since 2008), BCS (2013)
  - Fellowship of the Higher Education Academy (under submission- results in June 2016)
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### 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

#### Research Projects

- Main Investigator of European Marie Curie project *requirements@run.time* May 2011 – May 2013
- 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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### Proposed Successful Grants

- requirements@runtime: Requirements-aware Systems, €222.547, 24-month Marie Curie Action Intra-European Fellowship (Main author for project proposal), (2011-2013)
- 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).
- 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, 2006
- ACM/IFIP/USENIX 5th International Middleware Conference, Canada, 2004
- Student Travel Grant Association Internationale pour les Technologies Objects (AITO), Norway, 2004

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### Services to Research Community

#### Organization of Events

- Coordinator Five-day Dagstuhl seminar on Models@run.time 2011
- Co-organizer Workshop Models@run.time in MODELS 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016 (average participants 20-40 people)
- Co-founder/organizer Workshop Artificial Intelligence for Requirements Engineering (AIRE) in RE 2014, 2015
- Co-organizer/founder of Workshop Requirements@run.time in RE 2010, 2011

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### Professional Services

Member Steering Committee SEAMS (2014- )

Member BCS RESG Committee (special interest group for systems requirements) 2016

Member Editorial Board of the Springer Journal of Software Engineering Research and Development(JSERD) 2016

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**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

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### Publications Reviewer

**Journal SoSyM** (regular reviewer), **Journal Computing**, Springer, **JUCS** Special issue on Software Components, Architectures and Reuse- Special Issue, **IEEE Software Special Issue: Domain-Specific Languages & Modeling**, **Journal of Systems and Software** - Special issue on Software Architectures and Mobility, **Journal Formal Aspects of Computing (FAC)**

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**Program Committee and organization:** I have served or serve as Program Committee member of:

**MODELS, RE, SEAMS, ESEC-FSE, ICSE-NIER, ASE, REFSQ, SAC-RE, CibSE, WICSA/ECSA**

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### PhD External Examiner

University of York, UK (2015), Birmingham University, UK (2015), University of Malaga, Spain (2012), Fondazione Bruno Kessler, University of Trento, Italy (2011), King's College London, UK (2010)

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

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**Other activities** Cinema, Trekking, Photography, and Yoga

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### References

- **Prof. Gordon Blair**
- **Prof. Betty H.C. Cheng**
- **Dr. Valerie Issarny**
- **Prof. Anthony Finkelstein**

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**Publications** - See <http://www.nellybencomo.me/publications.html> (the list is reasonably up-to-date)