



**Dr Ruzanna Chitchyan**  
**PhD (Lanc.)**

Senior Lecturer in Software Engineering

**Area of research**

Software Engineering for Sustainability

Office MVB 3.36  
Merchant Venturers Building,  
Woodland Road, Clifton BS8 1UB  
([See a map](#))

[r.chitchyan@bristol.ac.uk](mailto:r.chitchyan@bristol.ac.uk)

**Summary**

**Biography**

I am a senior lecturer in Software Engineering at the University of Bristol and an EPSRC fellow on Living with Environmental Change. I work on software and requirements engineering for sustainability.

Prior to joining Bristol, I worked as a lecturer in Software Engineering at the Department of Informatics at the University of Leicester (2011 to 2017) and a research associate/assistant at the Department of Computer Science at the University of Lancaster (2004-2011), where I also gained a PhD in Computer Science (2007).

**Teaching**

As a full-time EPSRC research fellow, I currently have no teaching responsibilities.

**Past teaching:**

- **Requirements Engineering and Professional Practice** (2014 to 2016, taught at the University of Leicester) - a first year module on introduction to Requirements Engineering, covering:
  - Overview of Requirements Engineering (e.g., scope, stakeholders, practice);
  - Requirements Elicitation (e.g., interviews, observation, focus groups), and
  - Requirements Representation (e.g., use cases, goal models, business processes, activity models)
  - Security in Requirements (e.g., misuse cases, anti-goals, obstacle analysis).
- **CO7207: Generative Development** (2012 to 2016, taught at the University of Leicester) - an MSc module on new development techniques to cope with size and complexity increase in software systems, covering:
  - Model Driven Development,
  - Aspect-Oriented Development, and
  - Software Product Lines.
- **CO7501: Individual Project** (2013 to 2017, taught at the University of Leicester) - and MSc final project module.

**Keywords**

- Software Engineering
- Requirements Engineering
- Energy

- Energy Systems
- Socio-technical systems

## Memberships

## Organisations

[Department of Computer Science](#)

## Other sites

- [Engineering](#)

## Recent publications

- Schien, D, Nolden, C, Bird, C, Wilkins, D, Ramokapane, M, Preist, C, Chitti, P & Chitchyan, R, 2019, '[Exploring Implications of Capacity-Based Electricity Pricing for Peak Demand Reduction](#)'. in: Annika Wolff (eds) *ICT for Sustainability: Proceedings of the 6th International Conference on ICT for Sustainability*. CEUR Workshop Proceedings
- Duboc, L, Betz, S, Penzenstadler, B, Kocak, SA, Chitchyan, R, Leifler, O, Porras, J, Seyff, N & Venters, C, 2019, '[Do we really know what we are building? Raising awareness of potential Sustainability Effects of Software Systems in Requirements Engineering](#)'. in: *27th IEEE International Requirements Engineering Conference*. IEEE Computer Society
- Kienzle, J, Mussbacher, G, Combemale, B, Bastin, L, Bencomo, N, Bruel, J-M, Becker, C, Betz, S, Chitchyan, R, Cheng, B, Klingert, S, Paige, R, Penzenstadler, B, Seyff, N, Syriani, E & Venters, C, 2019, '[Towards Model-Driven Sustainability Evaluation](#)'. *Communications of the ACM*.
- Al Hinai, MA & Chitchyan, R, 2019, '[Equality Requirements for Software Systems: A Survey](#)'. in: Annika Wolff (eds) *Proceedings of the ICT4S 2019 Conference*. CEUR Workshop Proceedings
- Bird, C & Chitchyan, R, 2019, '[Towards Requirements for a Demand Side Response Energy Management System for Households](#)'.
- Chitti, P & Chitchyan, R, 2019, '[Keeping Data Inter-related in a Blockchain](#)'. in: Cinzia Cappiello, Marcela Ruiz (eds) *Information Systems Engineering in Responsible Information Systems - CAiSE Forum 2019, Proceedings: Rome, Italy, June 3–7, 2019*. Springer, Cham, pp. 48-59
- Chitti, P, Murkin, J & Chitchyan, R, 2019, '[Data management: Relational vs blockchain databases](#)'. in: Henderik A Proper, Janis Stirna (eds) *Advanced Information Systems Engineering Workshops: CAiSE 2019 International Workshops, Rome, Italy, June 3-7, 2019, Proceedings*. Springer, Cham, pp. 189-200
- Zekaria, Y & Chitchyan, R, 2019, '[Exploring Future Skills Shortage in the Transition to Localised and Low-Carbon Energy Systems](#)'.
- Chitchyan, R, Shah, P & Bird, C, 2019, '[Eliciting requirements for demand response service design to households: A pilot study](#)'. in: *Proceedings of the 23rd International Conference on Evaluation and Assessment in Software Engineering, EASE 2019, Copenhagen, Denmark, April 2014-17 2019*. Association for Computing Machinery (ACM), pp. 299-304
- Weber, B & Chitchyan, R, 2019, '[Welcome message from the short paper and empirical artefacts track chairs](#)'. in: *23rd Evaluation and Assessment in Software Engineering Conference, EASE 2019: IT University Copenhagen; Denmark; 14 April 2019 through 17 April*. Association for Computing Machinery (ACM)

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