



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

Senior Lecturer in Software Engineering

**Area of research**

Software Engineering for Sustainability

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**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](#)

[Cabot Institute](#)

## Other sites

- [Computerscience](#)

## Recent publications

- Chitchyan, R, 2019, '[Eliciting Requirements for Demand Response Service Design to Households: A Pilot Study](#)'.
- Ullah, F, Edwards, M, Ramdhany, R, Chitchyan, R, Babar, MA & Rashid, A, 2018, '[Data exfiltration: A review of external attack vectors and countermeasures](#)'. *Journal of Network and Computer Applications*, vol 101., pp. 18-54
- Becker, C, Chitchyan, R, Betz, S & McCord, C, 2018, '[Trade-off Decisions Across Time in Technical Debt Management: A Systematic Literature Review](#)'. in: *International Conference on Technical Debt, Gothenburg, Sweden, May 27-28, 2018*. Association for Computing Machinery (ACM)
- Penzenstadler, B, Duboc, L, Venters, C, Betz, S, Seyff, N, Wnuk, C, Chitchyan, R, Easterbrook, S & Becker, C, 2018, '[Software Engineering for Sustainability: Find the Leverage Points!](#)'. *IEEE Software*.
- Cazzola, W, Chitchyan, R, Rashid, A & Shaqiri, A, 2018, '[μ-DSU: A Micro-Language Based Approach to Dynamic Software Updating](#)'. *Computer Languages, Systems and Structures*, vol 51., pp. 71-89
- Anthonysamy, P, Rashid, A & Chitchyan, R, 2017, '[Privacy Requirements: Present Future](#)'. in: *39th IEEE/ACM International Conference on Software Engineering: Software Engineering in Society Track, ICSE-SEIS 2017, Buenos Aires, Argentina, May 20-28, 2017.*, pp. 13-22
- Chitchyan, R, Groher, I & Noppen, J, 2017, '[Uncovering sustainability concerns in software product lines](#)'. *Journal of Software: Evolution and Process*, vol 29.
- Venters, CC, Seyff, N, Becker, C, Betz, S, Chitchyan, R, Duboc, L, McIntyre, D & Penzenstadler, B, 2017, '[Characterising Sustainability Requirements: A New Species Red Herring or Just an Odd Fish?](#)'. in: *39th IEEE/ACM International Conference on Software Engineering: Software Engineering in Society Track, ICSE-SEIS 2017, Buenos Aires, Argentina, May 20-28, 2017.*, pp. 3-12
- Gibson, M, Venters, C, Duboc, L, Betz, S, Chitchyan, R, Silva, VP, Penzenstadler, B & Seyff, N, 2017, '[Mind the chasm: A UK fisheye lens view of sustainable software engineering](#)'.
- Murkin, J, Chitchyan, R & Ferguson, D, 2017, '[Goal-Based Automation of Peer-to-Peer Electricity Trading](#)'. in: *From Science to Society: New Trends in Environmental Informatics*. Springer, Cham, pp. 139-151

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