



# Pooja Rani

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## Curriculum Vitae

### Education

- 2018 – now **Ph.D in Computer Science**, *University of Berne, Switzerland.*
- 2015 – 2017 **Masters of Engineering in Software System**, *Birla Institute of Technology and Science-Pilani, Rajasthan, India, CGPA – 8.53.*
- 2011 – 2014 **Bachelor of Engineering in Computer Science**, *The Institution of Engineers, India, CGPA – 8.33.*
- 2008 – 2011 **Diploma in Computer Science and Engineering**, *Kalpana Chawla Government Polytechnic for Women, Ambala, Haryana, India, Percentage – 83.*

### Work Experience

- July, 2017 – **Software Developer**, *at People Interactive Group pvt ltd. Mumbai, India.*  
Dec, 2017
- Jan, 2017 – **Member of Technical Staff**, *at VMware Software India pvt ltd. Bangalore, India.*  
Jun, 2017
- Jul, 2011 – **Software Tester**, *at Samsung Research Institute, Noida, India.*  
July, 2014

### Teaching Activities

- 2018 – 2021 **Course Instructor, University of Berne**, *Bachelor & Master courses.*
- Object-Oriented Programming language: Instructor for the Bsc course in every Spring 2018, 2019, 2020, and 2021.
  - Software Modeling Analysis: Assistant of Msc course in Autumn 2018, and 2020.
- 2015 – 2016 **Teaching Assistant, BITS Pilani**, *Bachelors courses.*
- Computer Architecture: Explaining various concepts of Verilog and Computer Architecture during lab hours, redesigning lab experiments.
  - Computer Programming: Explaining concepts of C Language, organizing various quiz and test timely, providing solution and handling all queries during lab hours.
  - Software Testing: Designing questions and answers, checking answer sheets and handling queries related to subject.

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## Supervision Activities

- 2019-2020 **Msc thesis, University of Berne.**  
Supervised one master student and published the work in SANER, 2021
- 2018-2021 **Bsc thesis, University of Berne & University of Zurich.**  
Currently supervising 3 bachelor thesis and has supervised 2 Bsc students in the past
- 2018-2021 **Seminar projects, University of Berne.**  
Supervised 3 seminar students on various topics

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## Research Interests

- Empirical Software Engineering
- Mining Software Repositories
- Natural language processing
- Machine learning applied to SE
- Comment Quality Assessment
- Code Comprehension & Maintenance

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## Publications

- JSS **How to Identify Class Comment Types? A Multi-language Approach for Class Comments Classification**, *Under minor revision*, 2021.
- EMSE **What do class comments tell us? An investigation of comment evolution and practices in Pharo Smalltalk**, *To appear*, 2021.
- ICSE **Speculative analysis for comment quality assessment**, 2021.
- SANER **Makar: a framework for multi-source studies based on unstructured data**, 2021.
- SATToSE **Software Analysis using Natural Language Queries**, 2018.

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## Collaborations

- 2018 – Today **Sebastiano Panichella**, *Switzerland*.
- 2018 – Today **Mohammad Ghafari**, *Ireland*.
- 2019 – Today **Alexandre Bergel**, *Chille*.
- 2019 – Today **Andrea Di Sorbo**, *Italy*.
- 2020 – Today **Nataliia Stulova**, *Switzerland*.
- 2020 – Today **Alessandra Gorla**, *Spain*.

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## Other Professional activities

- 2019–Today Board Member of CHOOSE group (Swiss group for Software Engineering)
- 2018–2021 Co-reviewed papers of various international conferences and journals (SANER, TOSEM, ICSME)

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## Achievements and Awards

- 2018 Best presentation award at SATTOSE, 2018
- 2014 Qualified GATE 2015 - Research fellowship from MHRD(Ministry of Human Research Development), India.

- 2012 Received the youngest Employee of the year award in Samsung.  
2011 Batch Topper – Secured 1st Rank in Diploma college.

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## More Details

Nationality – Indian

Language – English (C1), Hindi (native), German (A2.1)

Home page – <https://poojaruhal.github.io/>

Office page – <http://scg.unibe.ch/staff/Pooja-Rani>